

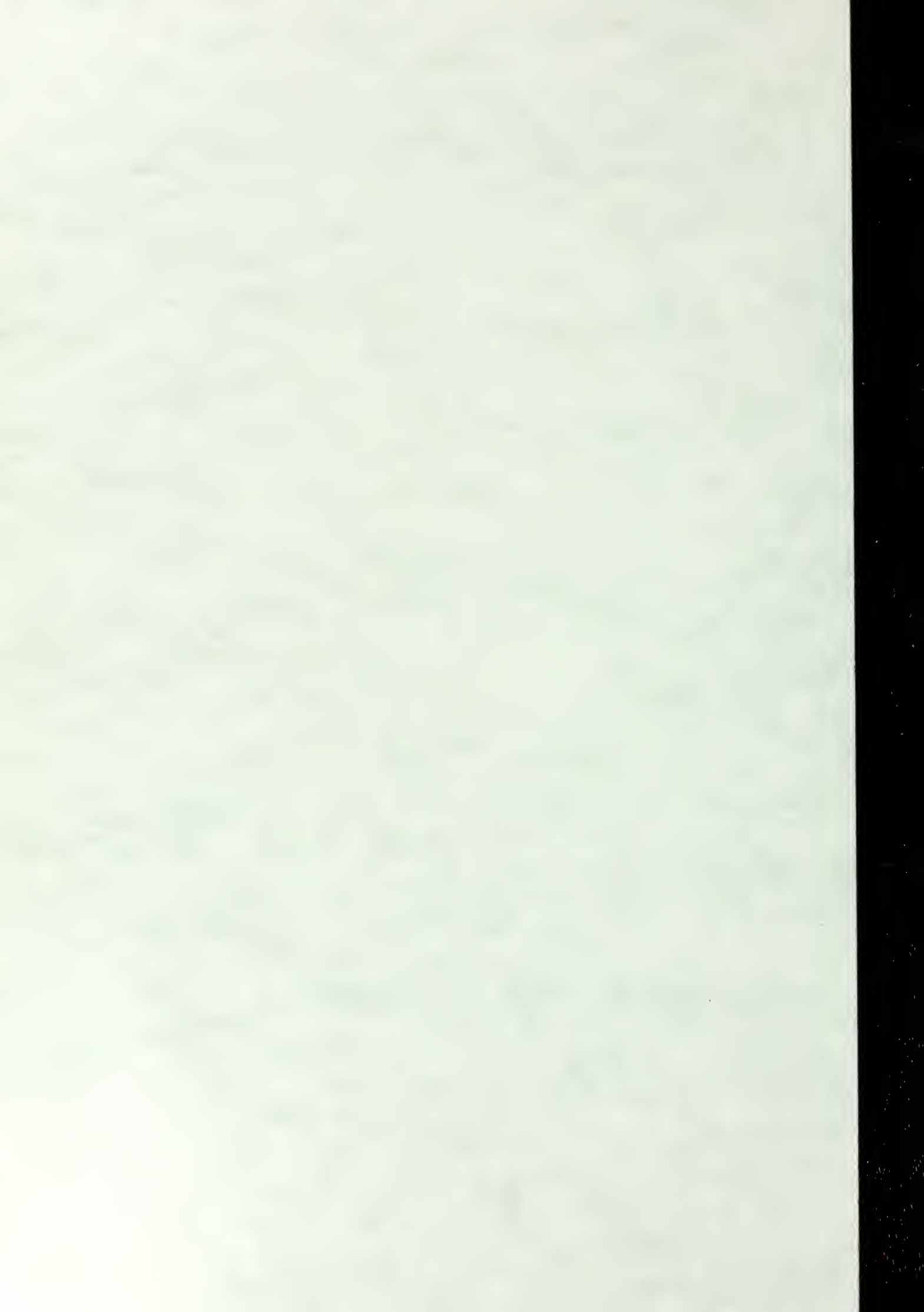
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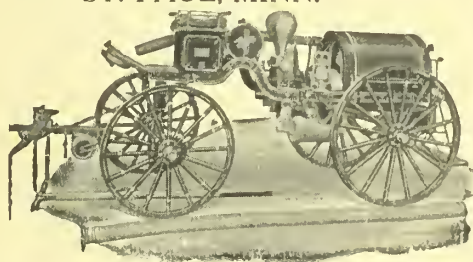
# The IMPROVEMENT BULLETIN

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Page Fifty

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ney's Cement mortar  
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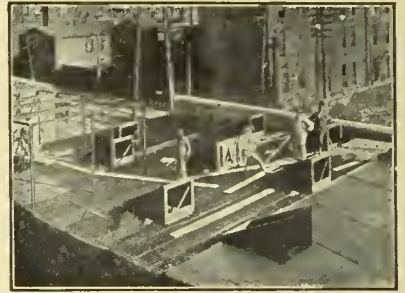
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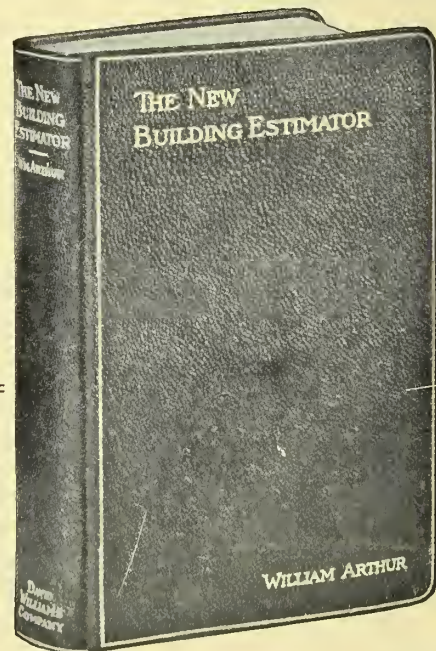
MINNEAPOLIS, - - - MINNESOTA

## ARCHITECTS

throughout the Northwest are requested to send us their correct name and street address. We ask this with the view of correcting and enlarging our architects' directory.

New architects, and those who have changed address, especially invited to respond, so that the new directory may be complete and reliable.

::: The Improvement Bulletin :::



## ARTHUR'S NEW 1913 Edition BUILDING ESTIMATOR

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# The Improvement Bulletin

A Weekly Journal of Construction, Engineering and Architectural News Founded by Harold C. Chapin

Volume XLVII.

Minneapolis, Minn., February 28, 1914.

Number 13

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### OFFICES.

Minneapolis, Minn.—912 Lumber Exchange.  
Tel. N. W. Main 3902.

St. Paul, Minn.—404 Scandinavian-American Bank Building. Tel. Cedar 1683.

### CORRESPONDENCE.

You are invited to send news and comments along lines of your business to Minneapolis office not later than Thursday.

### SUBSCRIPTIONS.

Single copy, 15 cents. One year, 52 issues, in advance, \$5.00. Six months, \$2.50. Three months, \$1.50. When requesting change of address, give old as well as new address. Daily Advance Construction Reports, \$5.00 a month, \$50.00 a year, in advance.

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For less than three pages in a year, \$25.00 a page. One page weekly, 52 pages a year, \$12.50 per page. Quarter page weekly, 13 pages a year, \$18.00 per page or \$4.50 per issue. Eighth page weekly, 6½ pages a year, \$20.00 per page or \$2.50 an issue. New advertisements received up to Thursday noon the week of issue.

PUBLISHED EVERY WEEK BY THE CHAPIN PUBLISHING CO. Entered at the Minneapolis Postoffice as Second Class mail matter

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### ARCHITECTURAL MODELING.

K. F. Lott & Co., Mpls. and St. Paul, Minn.

### ARCHITECTS' SUPPLIES.

Minneapolis Blue Ptg. Co., Mpls., Minn.  
Rogers & Co., Minneapolis, Minn.

### ASBESTOS AND MAGNESIA PRODUCTS.

H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
Krieger-Jamar Co., Duluth, Minn.

### ARTESIAN WELLS.

J. F. McCarthy, Minneapolis, Minn.  
S. Swenson Artesian Well Co., Minneapolis, Minn.

### BANKS.

Northwestern National Bk., Mpls., Minn.

### BANK AND STORE FIXTURES.

Flour City Ornamental Iron Works, Minneapolis, Minn.  
A. Moorman & Co., St. Paul, Minn.  
Northwestern Fixture & Cabinet Co., Minneapolis, Minn.

### BOILERS.

Andrews Heating Co., Minneapolis, Minn.  
Associate Mfrs. Supply Co., Mpls., Minn.  
Central Supply Co., Minneapolis, Minn.  
Crane & Ordway Co., St. Paul, Minn.  
Hasey Heating Co., Minneapolis, Minn.  
McDonnell Boiler & Iron Works, Des Moines, Iowa

### BONDS—SURETY.

Hood & Penney Co., Minneapolis, Minn.  
Wm. B. Joyce & Co., Mpls.-St. Paul, Minn.  
Fidelity & Deposit Co., Mpls.-St. Paul, Minn.

### BRASS GOODS.

Central Supply Co., Minneapolis, Minn.  
National Mfg. & Supply Co., Mpls., Minn.

### BRICK AND TILE.

American Brick & Tile Co., Mason City, Ia.  
Arnegard, Ole., Hillsboro, N. D.  
Barber Asphalt Paving Co., Des Moines, Ia.  
Belt Line Brick Co., Minneapolis, Minn.  
Boukind-Carlson Brick Co., Crookston, Minn.  
Chaska Brick & Tile Co., St. Paul, Minn.  
Crookston Brk. & Tile Co., Crookston, Minn.  
Dickinson Brick Co., Dickinson, N. D.  
Flint Brick Co., Des Moines, Ia.  
Hebron Fire & Pressed Brick Co., Hebron, N. D.  
Hydraulic Press Brk. Co., Minneapolis, Minn.  
Johnson, Jackson & Corning Co., Minneapolis and St. Paul, Minn.  
Mason City Brick & Tile Co., Mason City, Ia.  
National Fireproofing Co., Minneapolis, Minn., and Chicago, Ill.  
Northwestern Fireproofing Co., Mpls., Minn.  
A. C. Ochs Brick & Tile Co., Springfield, Minn.  
Red River Valley Brick Corporation, Grand Forks, N. D.  
Shakopee Cement Lime Co., St. Paul, Minn.  
Sioux City Brick & Tile Works, Sioux City, Ia.  
Standard Salt & Cement Co., Duluth, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.  
Twin City Brick Co., St. Paul-Mpls., Minn.

### BRIDGES.

American Bridge Co., Minneapolis, Minn.  
Corrugated Bar Co., St. Paul, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
N. W. Concrete Steel Co., Minneapolis, Minn.  
St. Paul Foundry Co., St. Paul, Minn.

### BUILDING MATERIAL.

Barber Asphalt Paving Co., Des Moines, Ia.  
Baxter Sash & Door Co., Duluth, Minn.  
N. B. Cagley & Co., Minneapolis, Minn.  
Carr-Cullen Co., Minneapolis, Minn.  
Dunlop-Moore Co., Duluth, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co., Mpls. and St. Paul, Minn.  
Landers-Morrison-Christensen Co., Minneapolis, Minn.  
Osgood & Blodgett Mfg. Co., St. Paul, Minn.  
Shakopee Cement Lime Co., St. Paul, Minn.  
The Northwestern Lime Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

### BUILDERS' SPECIALTIES.

Dunlop, Moore Co., Duluth, Minn.  
Paine & Nixon Co., Duluth, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Thomson-Williams Co., Duluth, Minn.  
Waterloo Register Co., Waterloo, Ia.

## The Buyer's Guide and Classified Directory of Advertisers

### CEMENT.

Atlas Portland Cement Co., New York, N. Y., Chicago, Ill., and Minneapolis, Minn.  
Carney's Cement Works, Mankato, Minn.  
Fowler & Pay., Mpls. and Mankato, Minn.  
Landers-Morrison-Christensen Co., Minneapolis, Minn.  
N. W. Lime Co., Mpls. and St. Paul, Minn.  
Shakopee Cement Lime Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Speakes Lime & Cement Co., Superior, Wis.  
St. Paul Lime & Cement Co., St. Paul, Minn.

### CELLS, STEEL.

Avery Steel & Iron Co., Minneapolis, Minn.  
Diebold Safe & Lock Co., St. Paul, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.

### CEILINGS, STEEL.

Canton Steel Ceiling Co., Minneapolis, Minn.  
R. S. Wishart & Co., Minneapolis, Minn.

### CHAIRS, OPERA.

Northern Theatre Supply Co., Mpls., Minn.

### COAL CHUTES.

Enterprise Iron Works, Albert Lea, Minn.  
Gardner Hardware Co., Minneapolis, Minn.  
Majestic Furnace & Fdy. Co., Mpls., Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Waterloo Register Co., Waterloo, Ia.

### COLD STORAGE PLANTS.

Chas. A. Berger, Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

### COLUMN CLAMPS.

O. F. Symons & Co., Minneapolis, Minn.

### CONCRETE CONSTRUCTION.

Corrugated Bar Co., St. Paul, Minn.  
C. A. P. Turner, Minneapolis, Minn.

### CONCRETE MACHINERY.

Eureka Machine Co., Lansing, Mich.  
G. E. Ingersoll & Co., St. Paul, Minn.  
Koehring Machine Co., Minneapolis, Minn., and Milwaukee, Wis.  
Standard Salt & Cement Co., Duluth, Minn.  
Jaeger Machine Co., Columbus, Ohio  
Raymer Hardware Co., St. Paul, Minn.  
Lansing Co., Lansing, Mich.

### CONCRETE REINFORCING BARS.

Inland Steel Co., St. Paul, Minn.  
Corrugated Bar Co., St. Paul, Minn.  
N. W. Concrete Steel Co., Minneapolis, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.

### CORNICES.

Griffin & Boehme, St. Paul, Minn.  
F. V. Haverland, Minneapolis, Minn.  
Minnesota Roofing & Cornice Works, St. Paul, Minn.  
R. S. Wishart & Co., Minneapolis, Minn.  
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.

### CORRUGATED IRON, ETC.

Corrugated Bar Co., St. Paul, Minn.

### CONCRETE REINFORCING.

Inland Steel Co., St. Paul, Minn.  
N. W. Concrete Steel Co., Minneapolis, Minn.

### CONTRACTORS.

N. B. Cagley & Co., Minneapolis, Minn.

### CONTRACTORS' SUPPLIES AND MACHINERY.

Decker Hardware Co., St. Paul, Minn.  
O. F. Symons & Co., Minneapolis, Minn.

### CULVERTS.

Biesanz Stone Co., Winona, Minn.  
Klauser Mfg. Co., Dubuque, Ia.  
Minneapolis Steel & Mach. Co., Mpls., Minn.

### CRUSHED STONE.

Fowler & Pay., Mankato, Minn.  
Kettle River Co., Minneapolis, Minn.  
Klauser Mfg. Co., Dubuque, Ia.  
Mantorville Stone Co., Mantorville, Minn.  
New Ulm Stone Co., New Ulm, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Widell Co., Mankato, Minn.

### CREOSOTING.

Republic Creosoting Co., A. E. Larkin, Minneapolis, Minn.

### DEADENING MATERIAL.

H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Union Fibre Co., Winona, Minn.

### DECORATIONS.

Odin J. Oyen, La Crosse, Wis.

### DITCHING MACHINES.

Dix Machine Co., Stillwater, Minn.

### ELECTRICAL ENGINEERING.

Minneapolis Electric Equipment Co., Minneapolis, Minn.  
Northern Electrical Co., Minneapolis, Minn.

## RATES

For three lines in directory, giving name, address and goods handled, \$25 for 1 year, 52 times.

### SAMPLE AD

Great Northern Brick Company  
Pressed Brick and Drain Tile  
Minneapolis, - - - Minn.

### ELECTRIC MOTORS AND SUPPLIES

H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
Minneapolis Electric Equipment Co., Minneapolis, Minn.  
Sterling Electric Co., Minneapolis, Minn.

### ELECTRIC SPECIALTIES

Minneapolis Electric Equipment Co., Minneapolis, Minn.

### ELEVATORS AND ENCLOSURES.

Kimball Bros. Co., Council Bluffs, Ia.  
Gust Lagerquist, Minneapolis, Minn.  
Lee & Hoff Mfg. Co., St. Paul, Minn.

### ELEVATOR CABS.

N. W. Fixture & Cabinet Co., Mpls., Minn.

### ENGINEERS—CONTRACTORS.

Power Engineering Co., Minneapolis, Minn.

### ENGINEERS.

Oscar Claussen Engineering Co., St. Paul, Minn.  
Charles L. Pillsbury, Minneapolis, Minn.  
L. P. Wolff, St. Paul, Minn.  
M. B. Stone, Minneapolis, Minn.  
W. P. Cowles, Minneapolis, Minn.

### FIRE ESCAPES.

Des Moines Structural Steel Works, Des Moines, Ia.  
Davenport Mach. & Fdy. Co., Davenport, Ia.  
Minneapolis Steel & Mach. Co., Mpls., Minn.

### FIREPROOF DOORS.

Thorp Fireproof Door Co., Minneapolis, Minn.  
R. S. Wishart & Co., Minneapolis, Minn.

### FLUE LINING.

Northwestern Lime Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.

### FIRE PROTECTION APPARATUS.

Waterous Engine Works Co., St. Paul, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

### FIREPROOFING DOORS AND SHUTTERS.

Selden Roofing & Manufacturing Co., Minneapolis, Minn.  
R. S. Wishart & Co., Minneapolis, Minn.

### FLOORING.

American Torgoment Flooring Co., Minneapolis and (Midway) St. Paul, Minn.  
Fama Stonewood Co., St. Paul, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co., Mpls. and St. Paul, Minn.  
Osgood & Blodgett Mfg. Co., St. Paul, Minn.  
Ranson, Birtram W., Minneapolis, Minn.  
I. Stephenson Co., Wells, Mich.  
Thomson-Williams Co., Duluth, Minn.

### FURRING.

Corrugated Bar Co., St. Paul, Minn.

### GAS AND ELECTRICAL FIXTURES.

Herber Chandelier Co., Minneapolis, Minn.  
Mpls. Electric Equipment Co., Mpls., Minn.  
Minneapolis Gas Fixture Co., Mpls., Minn.  
Sterling Electric Co., Minneapolis, Minn.

### GLASS.

American Luxfer Prism Co., Chicago, Ill.  
Minnesota Art Glass Co., St. Paul, Minn.  
Pittsburgh Plate Glass Co., Minneapolis and St. Paul, Minn.

### GRANITE.

Rockville Granite Co., Rockville, Minn.

### GRAVITY CARRIER.

Minnesota Manufacturers' Association, North St. Paul, Minn.

### HARDWARE TRIMMINGS.

Decker Hardware Co., St. Paul, Minn.  
Gardner Hardware Co., Minneapolis, Minn.  
Raymer Hardware Co., St. Paul, Minn.  
Waterous Engine Co., St. Paul, Minn.  
Warner Hardware Co., Minneapolis, Minn.

### HEAT REGULATORS.

Andrews Heating Co., Minneapolis, Minn.

### HEATING AND VENTILATING.

Andrews Heating Co., Minneapolis, Minn.  
Associate Mfrs. Supply Co., Minneapolis, Minn.  
Hasey Heating Co., Minneapolis, Minn.  
H. Kelly & Co., Minneapolis, Minn.  
National Mfg. & Supply Co., Mpls., Minn.  
Charles Wilkins & Co., Minneapolis, Minn.

### HOSE.

Gardner Hardware Co., Minneapolis, Minn.  
W. K. Morison & Co., Minneapolis, Minn.

### HOTELS.

Radisson Hotel, Minneapolis, Minn.



## NOTE

For street address of firms mentioned here, consult their advertisements, which can readily be found by referring to the alphabetical list on page three.

### INSULATING MATERIAL.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co.....St. Paul, Minn.  
Union Fibre Co.....Winona, Minn.

### INSURANCE.

Fidelity & Deposit Co.....Minneapolis and St. Paul, Minn.  
Fred L. Gray Co.....Minneapolis, Minn.  
Hood & Penney Co.....Minneapolis, Minn.  
W. B. Joyce Co.....Mpls. and St. Paul, Minn.  
Minneapolis Insurance Agency.....Mpls., Minn.

### IRON AND STEEL WORK.

Avery Steel & Iron Co.....Minneapolis, Minn.  
Clinton Bridge Works.....Clinton, Ia.  
Crown Iron Works.....Minneapolis, Minn.  
Davenport Machine & Foundry Co.....Davenport, Ia.  
Des Moines Structural Steel Works.....Des Moines, Ia.  
Inland Steel Co.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
N. W. Concrete Steel Co.....Minneapolis, Minn.  
Oberg & Stainer.....Minneapolis, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.  
St. Paul Foundry Co.....St. Paul, Minn.  
E. J. Voggenthaler Co.....Dubuque, Ia.  
Youngstown Iron & Steel Co.....Minneapolis, Minn.

### JOIST HANGERS.

Avery Steel & Iron Co.....Minneapolis, Minn.  
Davenport Machine & Foundry Co.....Davenport, Ia.  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
Northwestern Concrete Steel Co.....

### LANDSCAPE ARCHITECTS.

B. Terrell Hoyt.....Minneapolis, Minn.

### LIME.

Fowler & Pay.....Mpls. and Mankato, Minn.  
Landers-Morrison-Christenson Co.....Minneapolis, Minn.  
Gust Lillyblad.....Red Wing, Minn.  
Shakopee Cement Lime Manufacturing Co.....St. Paul, Minn.  
Speakes Lime & Cement Co.....Superior, Wis.  
St. Paul Lime & Cement Co.....St. Paul, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.  
The Northwestern Lime Co.....St. Paul, Minn.

### MANTELS—GRATES.

Drake Marble & Tile Co.....Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
N. W. Marble & Tile Co.....Minneapolis, Minn.  
Twin City Tile & Marble Co.....Mpls., Minn.

### MARBLE, TILING, MOSAIC.

Drake Marble & Tile Co.....Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
N. W. Marble & Tile Co.....Minneapolis, Minn.  
Thomson-Williams Co.....Duluth, Minn.  
Twin City Tile & Marble Co.....Mpls., Minn.

### METAL SHINGLES.

Milwaukee Corrugating Co.....Milwaukee, Wis.

### METAL AND WIRE LATH.

Corrugated Bar Co.....St. Paul, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.  
Johnson, Jackson & Corning.....Minneapolis and St. Paul, Minn.  
Northwestern Lime Co.....St. Paul, Minn.  
St. Paul Lime & Cement Co.....St. Paul, Minn.  
Thomson-Williams Co.....Duluth, Minn.

### MILLWORK.

Baxter Sash & Door Co.....Duluth, Minn.  
Osgood-Blodgett Mfg. Co.....St. Paul, Minn.

### MUNICIPAL CASTINGS.

Davenport Mach. & Fdy. Co.....Davenport, Ia.

### OFFICE FURNITURE.

Farnham Printing & Sta. Co.....Mpls., Minn.

### ORNAMENTAL IRON AND WIRE.

Builders Iron Works Co.....Minneapolis and St. Paul, Minn.  
Davenport Machine & Foundry Co.....Davenport, Ia.  
Demueles Bros.....Minneapolis, Minn.  
Flour City Ornamental Iron Works.....Minneapolis, Minn.  
Midway Ornamental Iron Works.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
St. Paul Foundry Co.....St. Paul, Minn.

### PAINTS, FILLERS, ETC.

Gardner Hardware Co.....Minneapolis, Minn.  
Ricketson Mineral Paint Works.....Milwaukee, Wis.

## The Buyer's Guide and Classified Directory of Advertisers

### PACKINGS AND HOSE.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

### PAVEMENT.

Barber Asphalt Paving Co.....Des Moines, Ia.  
Barrett Mfg. Co.....New York, N. Y.

### PICTURE MACHINES.

Northern Theatre Supply Co.....Mpls., Minn.

### PIPE AND BOILER COVERING.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

### PLASTER—WALL.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
Plymouth Gypsum Co.....Fort Dodge, Ia.  
Shakopee Cement Lime Co.....St. Paul, Minn.  
St. Paul Lime & Cement Co.....St. Paul, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.

### PLASTERING—ORNAMENTAL.

Brioschi-Minuti Co.....St. Paul, Minn.

### PLASTIC ORNAMENTS.

Brioschi-Minuti Co.....St. Paul, Minn.  
K. F. Lott & Co.....Mpls. and St. Paul, Minn.

### PLUMBING AND GAS FITTING.

Charles Wilkins & Co.....Minneapolis, Minn.

### PRINTING.

Farnham Printing Co.....Minneapolis, Minn.

### PRISMS.

American Luxfer Prism Co.....Chicago, Ill.

### PLUMBING AND HEATING JOBBERS.

#### POWER PLANTS.

Associate Mfrs. Supply Co.....Mpls., Minn.  
Central Supply Co.....Minneapolis, Minn.  
National Mfg. & Supply Co.....Mpls., Minn.

#### RADIATORS.

Associate Mfrs. Supply Co.....Mpls., Minn.  
Central Supply Co.....Minneapolis, Minn.

#### REVOLVING DOORS.

Van Kannel Revolving Door Co.....St. Paul, Minn.

#### ROOFING GRAVEL AND ASPHALT.

Griffin & Boehme.....St. Paul, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
Krieger-Jamar Co.....Duluth, Minn.  
Minnesota Roofing & Cornice Works.....St. Paul, Minn.  
Northwestern Lime Co.....St. Paul, Minn.  
Scribner-Libby Co.....St. Paul, Minn.  
Selden Roofing & Manufacturing Co.....Minneapolis, Minn.  
Thomson-Williams Co.....Duluth, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

#### ROOFING—METAL.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.  
Duluth Corrugating & Roofing Co.....Duluth, Minn.  
Gardner Hardware Co.....Minneapolis, Minn.  
La Crosse Steel Roofing & Corrugating Co.....St. Paul, Minn.  
St. Paul Roofing, Cornice & Ornamental Co.....St. Paul, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

#### ROOFING MATERIAL.

Barrett Mfg. Co.....New York, N. Y.  
Corrugated Bar Co.....St. Paul, Minn.  
John Leslie Paper Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
McClellan Paper Co.....Minneapolis, Minn.

#### ROOFING AND SIDING—IRON AND STEEL.

Gardner Hardware Co.....Minneapolis, Minn.  
Inland Steel Co.....St. Paul, Minn.

#### RUBBER SHINGLES.

Standard Salt & Cement Co.....Duluth, Minn.

#### RUST-RESISTING IRON SHEETS.

Inland Steel Co.....St. Paul, Minn.

#### SAFES.

Diebold Safe & Lock Co.....St. Paul, Minn.  
Heilig & Elliott Co.....Minneapolis, Minn.  
Herring-Hall-Marvin Safe Co.....

#### SAND AND GRAVEL.

Standard Salt & Cement Co.....Duluth, Minn.

#### SEWER PIPE AND DRAIN TILE.

Ingalls Stone Co.....Bedford, Ind.  
Iowa Sewer Pipe & Tile Co.....Des Moines, Ia.  
Northwestern Lime Co.....St. Paul, Minn.  
Plymouth Clay Products Co.....Fort Dodge, Ia.  
Red Wing Sewer Pipe Co.....Red Wing, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.

## REMEMBER

Announcements on this page are read by architects, contractors, and the building trade generally, all over the Northwest and produce excellent results.

### SHEETS—IRON AND STEEL.

Gardner Hardware Co.....Minneapolis, Minn.  
Inland Steel Co.....St. Paul, Minn.

### SIDEWALK LIGHTS.

American Luxfer Prism Co.....Chicago, Ill.  
K. F. Lott & Co.....St. Paul and Minneapolis, Minn.

### SLATÉ BLACKBOARDS.

Twin City Tile & Marble Co.....Minneapolis, Minn.

### SKYLIGHTS.

Krieger-Jamar Co.....Duluth, Minn.  
St. Paul Roofing, Cornice & Ornament Co.....St. Paul, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### STEEL—BARS.

Inland Steel Co.....St. Paul, Minn.  
Twin City Tile & Marble Co.....Mpls., Minn.

### STONE.

Babcock & Wilcox.....Kasota, Minn.  
Biesanz Stone Co.....Winona, Minn.  
Also Building Material, Gravel for Roofing, Sand and Gravel.  
Green Stone Co.....Kasota, Minn.  
Edw. Edinger Co.....Cedar Rapids, Ia.  
Ingalls Stone Co.....Bedford, Ind.  
Kettle River Co.....Minneapolis, Minn.  
Duluth Cut Stone Co.....Duluth, Minn.  
Mantorville Stone Co.....Mantorville, Minn.  
New Ulm Stone Co.....New Ulm, Minn.  
Pioneer Granite Co.....St. Cloud, Minn.  
Sauk Rapids Granite Co.....Sauk Rapids, Minn.  
Win. Penn Stone Co.....Minneapolis, Minn.  
The Widell Co.....Mankato, Minn.

STRUCTURAL SECTIONS AND SHEETS.  
Inland Steel Co.....St. Paul, Minn.

### TANKS—STEEL.

American Bridge Co.....Minneapolis, Minn.  
Central Supply Co.....Minneapolis, Minn.  
Minneapolis Steel & Mach. Co.....Mpls., Minn.

### TELESCOPIC HOISTS.

Avery Supply Co.....Minneapolis, Minn.

### TERRA COTTA.

Johnson, Jackson & Corning.....Minneapolis and St. Paul, Minn.  
K. F. Lott & Co.....Minneapolis and St. Paul, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.

### VARNISHES.

Gardner Hardware Co.....Minneapolis, Minn.  
North Star Varnish Co.....Minneapolis, Minn.  
Twin City Varnish Co.....St. Paul, Minn.

### VALVES.

Central Supply Co.....Minneapolis, Minn.  
Crane Co.....Minneapolis, Minn.  
Crane & Ordway Co.....St. Paul, Minn.

### VAULTS.

Diebold Safe & Lock Co.....St. Paul, Minn.  
Heilig & Elliott Co.....Minneapolis, Minn.  
Herring-Hall-Marvin Safe Co.....Also Vault Doors, Vault Furnishings and Filling Equipment.

### VENTILATING SYSTEMS.

Hackney Ventilating Co.....Minneapolis, Minn.  
Charles Wilkins & Co.....Minneapolis, Minn.

### WALL BEDS.

Northwestern Bedding Co.....St. Paul, Minn.

### WATERPROOFING.

Gardner Hardware Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co.....St. Paul, Minn.

### WATER TOWERS, STEEL.

Minneapolis Steel & Machinery Co.....Minneapolis, Minn.

WINDOW SCREENS—METAL FRAME.  
O. F. Symons & Co.....Minneapolis, Minn.

### WINDOW SHADES—WASHABLE.

National Window Shade Co.....Minneapolis, Minn.

### WIRE AND IRON WORKS.

Builders Iron Works.....Minneapolis and St. Paul, Minn.  
Demueles Bros.....Minneapolis, Minn.  
Midway Ornamental Iron Works.....St. Paul, Minn.

### WEATHER STRIPS.

Metal Weather Strip Co.....St. Paul, Minn.  
O. F. Symons & Co.....Minneapolis, Minn.

### WOODWORKING.

G. E. Ingersoll.....St. Paul, Minn.



WRITE US  
FOR  
PRICES  
ON

## WHEELBARROWS

Quick Shipments Prompt Deliveries

Agents for Yale & Towne Hardware

### W. K. MORISON & CO.

247-249 NICOLLET AVENUE

MINNEAPOLIS, MINN

(Cut on this line.)



**BLOUNT  
DOOR  
CHECKS**

**SEND THIS COUPON**  
with your order and we will allow you  
**A DISCOUNT OF 10% AND**  
**PREPAY FREIGHT 200 MILES**

- |  |        |
|--|--------|
| 1. For Screen Doors.....                               | \$3.25 |
| 2. For light inside Doors.....                         | 4.25   |
| 3. For heavy inside Doors not<br>over 2½x7 feet.....   | 5.00   |
| 4. For light outside or heavy<br>inside Doors.....     | 6.00   |
| 5. For heavy outside Doors not<br>over 3½x7½ feet..... | 8.00   |
| 6. For extra heavy Doors.....                          | 10.00  |

**GARDNER HARDWARE CO.**

304-306 HENNEPIN AVENUE

MINNEAPOLIS, MINN

(Cut on this line.)

## IDEAL FLOORING

Maple --- Birch --- Beech



**I. STEPHENSON CO., Trustees**  
WELLS, - - - MICHIGAN

## PLYMOUTH CLAY PRODUCTS COMPANY

FORT DODGE, IOWA

MANUFACTURERS OF

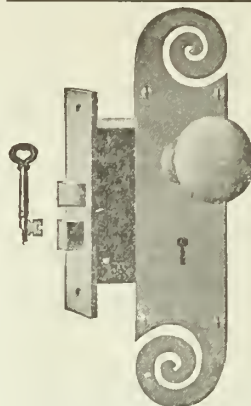
*Large Drain Tile*

*Sewer Pipe*

*Well Pipe*

*Flue Linings*

*Wall Coping*



## WARREN DESIGN COLONIAL

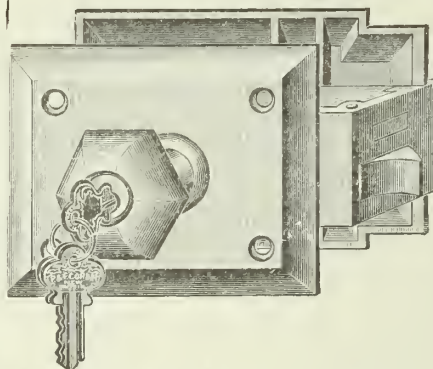
"CORBIN"

hardware provides the  
distinction and worth  
that lies in artistic de-  
signs and honest work-  
manship.

Ask for Catalogs

**WARNER HARDWARE CO.**

13 So. 6th St.  
Minneapolis.



**CORBIN  
LOCKS**

We make a  
Specialty of fine  
Builders' Hard-  
ware and Con-  
tractors' Supplies  
Estimates fur-  
nished promptly.

**ADAM DECKER HARDWARE COMPANY**

347-49 JACKSON STREET

ST. PAUL, MINN.

## BUILDING MATERIALS

SASH		DOORS
INTERIOR		FINISH
MANTLES		GRILLS
All Kinds		of Glass

LET US FIGURE; ALL ESTIMATES FREE

**CARR-CULLEN CO., Minneapolis**

10 Ave. N. E. and Marshall St. N. E. Tel. N. W. East 345. T. S. No. 345.

Face Brick      Enameled Brick  
Architectural Terra Cotta  
Metal Lath  
Cabot's Creosote  
Shingle Stains and  
Sheathing Quilt

**JOHNSON - JACKSON & CORNING CO.**

216-17 Lumber Exchange  
MINNEAPOLIS, MINN.

633 Ryan Building  
ST. PAUL, MINN.



## IMPROVEMENT BULLETIN

VOLUME XLVII.

SATURDAY, FEBRUARY 28, 1914

NUMBER 13



## EDITORIAL



O. L. COLBURN, Editor

## WISCONSIN LIABILITY LAW DISCUSSED.

Contractors of Janesville, Wis., listened to an address by O. A. Oestreich, an attorney, at the Janesville Builders' Exchange, on the Wisconsin employers' liability law, and many expressed the opinion that the law was unfair to the small builder and did not place enough responsibility to prevent accidents. While there would be a decline in size of damages, every accident would cost the employer whether he was responsible or not. Under the new Wisconsin law every employer of more than four men is responsible for all accidents so long as the workmen are in the common work and in one line of duty. Both the employee and employer reserve the right of entering under the liability law, but the industrial commission has provided sections protecting those under the law and the working man who refuses to work under the law can in time be forced to concede.

According to Mr. Oestreich an employer of more than four men automatically comes under the law, unless he files his decision to stay under the old laws. When a workman is injured, if he is unable to work after eight days' time, he receives sixty-five per cent of his wage, and in case of serious injury can collect, without going to court, four times his earning capacity, and in case of death his dependents are given six times this amount. In case the employee is injured over twenty-nine days, he is awarded his first week's wages as a compensation. Employers are required to pay for all medical attention and are given the right to indicate a certain physician for the injured man to go to.

The members of the association were particularly interested in the feature of the law which made general contractors liable for workmen under sub-contractors, and it was explained that the method used to escape their responsibility was to demand that the sub-contractor take out liability insurance or give bonds. It was pointed out that employers were liable from the time that the workman leaves his home to go to work until he reaches home at night from his employment so long as he is in the common line of duty.

Sifted down the law means that every workman is offered protection to a lesser degree than before and the damages depend on the earning capacity of the workman. Unless the employer is able to prove to the satisfaction of the commission that he is financially able to stand the damages, he is required to take out liability insurance and the workmen are certain to collect some damages.

## THE ANNUAL MEETING OF THE ENGINEERS.

Renewed interest in the plans of the Minnesota Surveyors and Engineers Society for an organization which shall include every civil engineer and surveyor in the state, was one of the chief results of the annual meeting in Minneapolis this week. In the talks at the smoker-luncheon, and in private talk, the members showed decided interest in organization as a means of placing the profession in its best possible position in the state. Steps were taken to carry on an active campaign this year for a greatly increased membership, and a maintenance of interest during the year, among the members, either by sectional meetings or otherwise.

It was apparent from the general sentiment in the addresses and discussions of the question to abolish the office of county surveyor, that it hardly was to be expected that any legislature for years to come would pass such a bill. Public opinion was not ready for it. But confidence was expressed that the ante-diluvian antiquated, prehistoric law for surveyors in the forests primeval, \$4.00 a day and pay his own expenses, could be erased from the statute books by vigorous and concerted action. A more modern estimate of the county surveyor undoubtedly will soon be indicated in the laws of Minnesota. The time of the next annual meeting, which will be held when the state legislature is in session, will be ripe for an appeal for the state to write 1915 into the county surveyor's office, instead of 1845. Things have changed since the Mexican war.

## TO ADVERTISERS

*The circulation receipts of The Improvement Bulletin for the month of February, 1914, are 50 per cent larger than for the same month a year ago. The Bulletin circulation receipts for the year ending Jan. 31, 1914, are 75 per cent larger than for the same period ending Jan. 31, 1913*

## PUT IN WHAT YOU WISH TO TAKE OUT.

A man who knows a good deal about advertisers and their troubles, said, in speaking before a large gathering the other day, that the reason why some advertisers do not get more out of advertising, is because they do not put more into it.

By this he meant, not that these advertisers should spend more money in advertising but that they should carefully use the space they had already purchased.

There is something in this. R. R. Shuman, of the Shuman-Booth Co., speaking to the Yellow Pine Manufacturers at their annual convention last week, said, "The trade journal offers you an audience of such vast buying power that it is little short of a crime the way most of you are now using the space you buy in them. The readers ask for bread and you give them a stone."

The question comes right down to this: Do you put in what you want to take out? Do you put into your advertising, the same careful effort and attention to detail which brings you the order when you go after a contract yourself? Would not a little more care in writing your ad, a little more attention to changing your selling talk once in a while, and a little more thoroughness in following up the information furnished you by your trade paper, result in much more business for you?

When you have a customer in the chair right opposite you, the fullest information and the most attractive prices you have are laid before him, and you use every effort in your power to show him the good points about your product and to get his order. Now, through your ad in the trade paper, you have right before you every week, thousands of buyers in the Northwest whom you could not otherwise talk to yourself in a year's time. They all see the selling talk in your ad and they are all waiting to hear what you have to say.

Use the same care in speaking to them when your words appear in type, that you do when you speak to them personally, put in a good cut now and then, just as you would show them the product itself if they were in your office, don't say the same sentence over and over but take up one point at a time and change your printed selling talk frequently and the replies will surely come.

The cry of, "We don't believe your subscribers read the advertising pages," is as old and out-of-date as the bicycle. It isn't true and you don't believe it yourself. If you really did, you wouldn't advertise at all.

Just to prove this point, the writer of this article put a few lines of advertising in the lower corner of one of the back pages of the Bulletin the other day. The article advertised for sale was a machine not ordinarily used and the ad was tucked away in a part of the paper where you might say it would never be noticed. But the writer knows how close our subscribers read this paper, how some of them mark each page with a pencil as it is read, and sure enough, in a day or so, came a letter from a man far away who had found in the ad just what he was looking for.

Advertising will sell almost anything,—that is—if you put into your advertising as much as possible of the good stuff that you want to get out of it.

## THE BULLETIN BECOMES AN OFFICIAL NEWSPAPER.

With this issue, The Improvement Bulletin becomes the official newspaper of the Minnesota State Association of Builders' Exchanges. This is a strong organization of contractors, manufacturers, material dealers, and others interested in the building business. It includes the members of the local exchanges which have joined and has for its main objects, the betterment of conditions and protection of interests in this important field of business. In an organization of this kind there are influential men of large interests; and concerted action by them through the state body will always be important. The Bulletin is pleased to have been selected to co-operate with the builders; and it is a matter of reasonable gratification to know that this paper, which has been endeavoring to be of increasing use and service in this field for about a quarter of a century, is to be the official medium of exchange of news and announcements among the members of the state association of builders; and also the medium of its publicity work for such large propositions as that discussed in another column this week. These will have a general interest not confined to the membership of the Minnesota State Association of Builders' Exchanges.



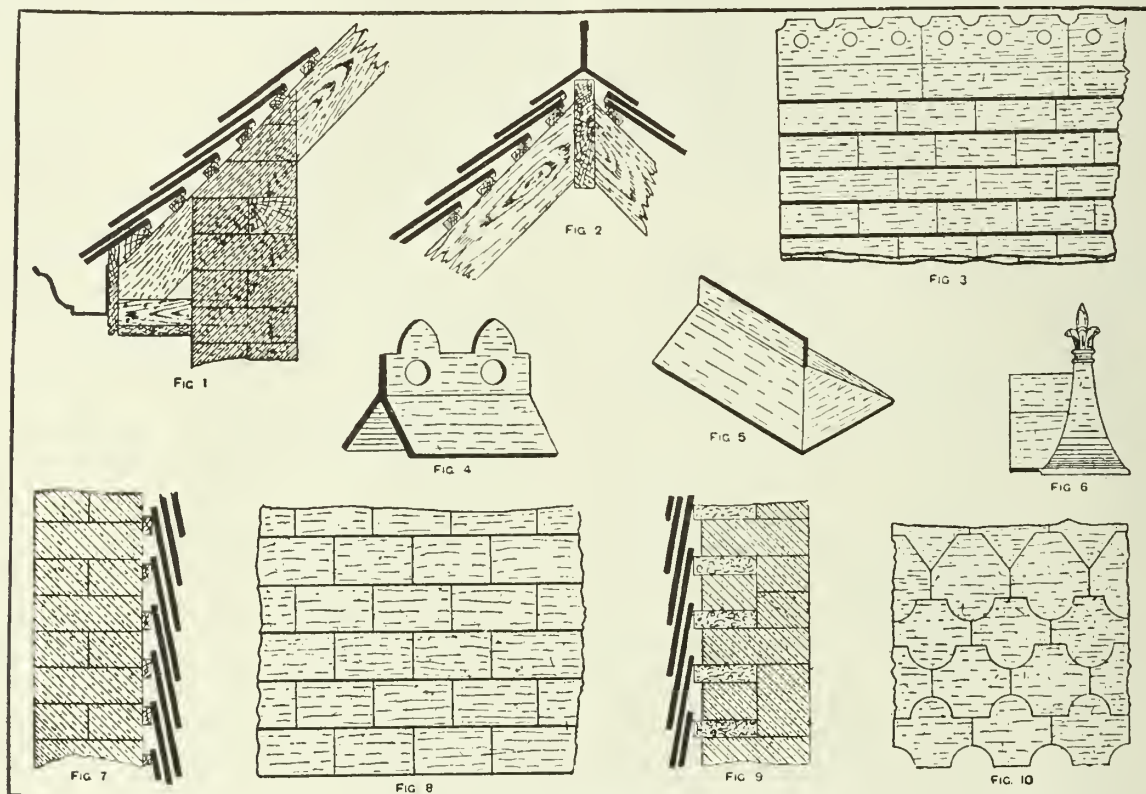
# Fixing Roof and Weather Tiling

The tiles used for roofing are known as plain tiles and pantiles, says the Building World. Pantiles are of an S shape, and are mostly used for roofing sheds, workshops, and farm buildings. These tiles do not form so good a roof covering as plain tiles, which are rectangular slabs of baked clay, about  $10\frac{1}{2}$  inches long by  $6\frac{1}{2}$  inches wide by  $\frac{1}{2}$  inch thick. The effect of a roof hung with plain tiles is generally held to be more pleasing than that of common slates. Tiles, however, are less impervious to wet than are slates, and the inclination of a roof hung with tiles should therefore be greater than that for slates; the minimum of inclination for a slate roof being about 23 degrees, while that for tiles may be stated at 45 degrees. The weight of slates laid with a 3-inch lap is, according to Hurst, 9 pounds per foot super., while plain tiles laid to an 8-inch gauge weigh 16 pounds per foot super.

Plain tiles are made with an ornamented lower edge, so that fancy courses of tiles can be introduced at intervals. Ruabon and Broseley tiles are among the more noted varieties of plain tiles. The commoner kinds are not so well burnt, and are therefore more absorbent; such tiles communicate the moisture to the timbers on which they are hung, and cause rot to be set up in them. Special tiles are made for ridges, hips and valleys.

From Fig. 1 it will be seen that in the length of a tile there are two distances equal to the gauge, and one equal to the lap. Therefore, with a  $3\frac{1}{2}$ -inch gauge, the lap of tiles  $10\frac{1}{2}$  inches long would equal  $10\frac{1}{2}$  inches—7-inch= $3\frac{1}{2}$  inch. If the lap is taken from the length of a tile, and the remainder divided by two, the gauge is the result. Thus  $10\frac{1}{2}$ -inch tiles with a 3-inch lap would have a gauge= $(10\frac{1}{2}-3)\div 2=3\frac{3}{4}$  inches. To make the tiles at the eaves bed properly, it is necessary to fix a tilting fillet as shown in Fig. 1; and in order that the eaves may be covered with a double thickness of tiles in a similar manner to the rest of the roof, it is necessary to introduce an eaves tile which is shorter than the rest.

The ridge is surmounted by specially moulded ridge tiles (Figs. 4 and 5), and the ends of the ridges are usually finished with a specially constructed ornamental tile called a finial (Fig. 6). To secure proper bonding in the length of the roof, what may perhaps be termed closer tiles are made, equal in width to half-tiles and also to one-and-a-half tiles. The use of these latter is shown in Fig. 3. As compared with slates, tiles are heavier, more expensive, and are absorbent, but they have the advantage of being more effective in color and of being warmer as a roof covering in



Fixing Roof and Weather Tiling. Fig. 1—Section through eaves. Fig. 2—Section through ridge. Fig. 3—Elevation of Fig. 2. Fig. 4—Ridge tile. Fig. 5—End ridge tile. Fig. 6—Finial. Fig. 7—Section of weather tiling on battens. Fig. 8—Elevation of Fig. 7. Fig. 9—Tiling attached to fixing blocks. Fig. 10—Ornamental weather tiling.

Fig. 1 gives a section through a roof hung with plain tiles. It will be seen that each tile is so laid that a part, called the margin, is exposed to view, while the remainder is hidden beneath the tile immediately above. The depth of the margin is termed the gauge. Again, the lower part of the margin of each tile overlaps by a few inches the tile next but one below it. This extent of margin is termed the lap.

When the roof is boarded and felted, the tiles are hung on battens, which are usually  $1\frac{1}{2}$  inch by  $\frac{1}{2}$  inch. The tiles are either (1) nailed to the batten with oak pins or metal nails driven through two holes near the top of the tiles, or (2) are hung by means of small projecting nibs formed on the under surface of the tiles along their top edge. Whichever method of fixing is used, it is obvious that the centers of the battens must be as far apart from one another as the lower edge of one tile is from the lower edge of the next above or below it. That is, the battens must be nailed on the boarding with a distance between their centers equal to the gauge. Tiles are laid to a 4-inch,  $3\frac{1}{2}$ -inch, or 3-inch gauge.

winter because they are not such good conductors of heat as are slates.

Several types of "self-locking" tiles which have been patented offer the advantage of being more completely weather-proof, while some are constructed with a nib to prevent slipping.

Instead of battens, feather-edged boarding, 6 inches wide and  $\frac{3}{4}$  inch thick on the thicker edge, is nailed to the rafters, so that the tiles can be hung to the feather-edge boarding by means of nibs made on the under side of the tiles, boarding and battening, being, as it were combined in one operation; though it is obvious that as the boards have to be laid with their thick edges towards the ridge, the system is not a good one. A plan for the further security of tile roof hung by nibs is to nail every third to tenth course.

Where tiles are used for protecting the vertical surface of a wall from driving rains, one of several methods of hanging the tiles can be employed. When it is desired to



hang with weather tiles a wall already existing, the tiles may be fixed by nailing them directly to the joints of the brickwork; or, alternatively, they may be hung on battens fixed by nailing to plugs driven at intervals into the wall. In the first case, the gauge being only 3 inches an unnecessary amount of lap is given to the tiles, and in the second case the woodwork is likely to be attacked by rot, so that this method is less permanent than that of direct fixing, provided that in the latter case the mortar in the joints is sound. A section through a wall hung with tiles fixed to battens is shown in Fig. 7, Fig. 8 being the front elevation.

Another method of fixing is by the use of fixing blocks made of a kind of concrete. Typical blocks measure 9 inches by 5½ inches by 1½ inches. These blocks are built into the face of the work as shown in Fig. 9, in horizontal lines between every two courses of face bricks. As these courses project beyond the face of the wall, they are suited for supporting tiles with nibs; but even when nibs are used the tiles must be nailed for vertical tiling. The eaves are finished by allowing a course of brick work to project so that the lower tiles may bed properly; and a double eaves course is used, as in roofing. Special tiles are made for the angles, one side being equal to a whole tile in width, and the other side equal to a half tile. A specimen or ornamental tiling is shown by Fig. 10.

#### ATTRACTIVE EXHIBITS AT THE HARDWARE SHOW.

The armory was tastefully decorated by J. L. Hall & Co., of Minneapolis. The arched roof girders were concealed with decorated cloth. The suspending of chandeliers of original design, suggesting the Oriental or Japanese, giving a beautiful and artistic touch to the ordinarily severe interior of the armory.

The St. Paul Roofing, Cornice and Ornament Co. had an attractive exhibit of sheet metal building material.

The Lansing Co. had a notable showing of wheelbarrows, trucks and concrete tools.

Roberts Hamilton Co., Minneapolis, had a very large and interesting exhibit of Rohaco boilers, heat regulators, and plumbing supplies.

H. W. Johns-Manville Co. had a fine display of asbestos roofings, waterproof paper, asbestos pipe covering, insulating material, fireproof cement, cork insulation, auto accessories, water pipe protectors and paints.

Twin City Varnish Co. display included a very complete exhibit of varnish and gums.

Minneapolis Heat Regulator Co. showed a complete demonstration of their famous heat regulator system.

McClellan Paper Co. exhibit specialized their well known and deservedly popular vulcanite roofing.

La Crosse Steel Roofing and Cornice Co. exhibited a complete line of sheet metal materials. Mr. Fred A. Brandt, their Twin City agent, had charge of their exhibit.

Canton Steel Ceiling Co. had a beautiful exhibit of steel ceilings, letter files, one-piece corrugated pipe elbows, tin roofing, valley tin, zinc ornaments and Greek side walls. A feature of their steel ceilings is the "punched nail holes, and repressed joints."

Farwell, Ozmum, Kirk & Co., a firm whose name is a household word as wholesalers of hardware in the Northwest, welcomed their legion of friends at their booth and extended their compliments in the way of buttons and fine Havanases.

Crane & Ordway Co. had one of the most interesting exhibits, showing in miniature their system of "running water for country homes," windmill run by electric fan, pump, piping to drinking tanks, home, barn, stock pens, etc.

The Minneapolis Paper Co. featured Em-pe-co wall board, Reynolds flexible asphalt shingles and Reliance deadening felt.

Gardner Hardware Co. featured the Klearkut wood stains, Garlit steellock and Hammar white lead. (See literature.)

Milwaukee Corrugating Co., a striking and suggestive exhibit, featuring "invisible joint" steel ceilings, Nu-air ventilator, and steel "roll roofing." "Milcor" is their service, which means prompt and efficient.

#### CROWN IRON WORKS REINCORPORATES.

**A Record of Thirty Years of Constantly Increasing Business.**

Starting with an investment of \$50, part payment on a lathe, the Crown Iron Works Co. has rounded out thirty years of existence, its articles of incorporation expiring Jan. 31, and is reincorporating with an authorized capital stock of \$300,000. This is to be divided into \$100,000 of 7 per cent cumulative preferred stock and \$200,000 common stock. The entire new issue has been sold. The company began doing business in 1878 under the firm name of Malmsten, Nelson & Co., and was incorporated under its present name in 1884. It has a factory employing more than 200 men at Tyler st. and 13th av. NE.

#### TENDERS ASKED FOR CONSTRUCTION OF \$2,000,000 BRIDGE AT VANCOUVER, B. C.

The Burrard Inlet Tunnel & Bridge Co. of Vancouver, B. C., has had plans proposed by John Wolfe Barry, the English engineer, for the proposed bridge over the 2d narrows near Vancouver. The bridge proper will consist of a steel draw span 581½ feet long and steel fixed spans 232 feet long. It will have a clearance of 45 feet above high water and will cross the Narrows at an angle of 75 degrees to the average direction of the flood and ebb current. The substructure will include six piers resting on rock. The bridge will be 64½ feet wide and will have a single track railway, double street cars tracks, a roadway and an 8 feet sidewalk. Wrought steel stringers supporting Douglas fir deck ties will be used in the superstructure. The approaches to the bridge will be supported on wrought steel trestles, reinforced with longitudinal arms resting on concrete foundations.

The draw span will revolve on a platform supported by four wrought steel cylinders, braced together and filled with concrete. It will be operated by electric motors, and gates, also electrically controlled, will automatically safeguard traffic when the draws are open. A channel will be dredged to give an average minimum depth of 35 feet to allow for the passage of large ships. It is estimated that the bridge, exclusive of the approaches, will cost over \$2,000,000.

The Burrard Inlet Tunnel & Bridge Co. was organized some months ago. It is capitalized at \$3,000,000; of this sum 25 per cent has been subscribed by the municipalities interested. The Provincial government has granted a subsidy of \$400,000 and the Dominion government a subsidy of \$350,000. The Provincial government also has been asked to guarantee a bond issue of \$750,000; tenders for the construction of the bridges will be received until April 1 by K. J. Cockrell, secretary, 142 Hastings st., W. Vancouver.—Engineering & Contracting.

#### EXHIBITED AT CHICAGO CEMENT SHOW.

Among the notable exhibits at the cement show in the Coliseum, Chicago, this year, were those of the following:

Anchor Concrete Stone Co., Rock Rapids, Iowa; Atlas Engineering Co., Milwaukee; Badger Concrete Mixer, Milwaukee; Cement Machinery Co., Jackson, Mich.; Cement Tile Machine Co., Waterloo, Iowa; Cereset Waterproofing Co., Chicago; Chain Belt Co., Milwaukee, Wis.; Clover Leaf Mach. Co., South Bend, Ind.; James Coyne, Fond du Lac, Wis.; D. & S. Post Mold Co., Three Rivers, Mich.; Eureka Mach. Co., Lansing, Mich.; Foote Concrete Mach. Co., Chicago; Hall Holmes Manufacturing Co., Jackson, Mich.; Handy Sack Baler Co., Cedar Rapids, Iowa; Ideal Concrete Machine Co., Cincinnati, Ohio; Interlocking Cement Stave Silo Co., Des Moines, Iowa; Jaeger Machine Co., Columbus, Ohio; Kent Machine Co., Kent, Ohio; Knickerbocker Co., Jackson, Mich.; Lansing Co., Lansing, Mich.; Lehigh Portland Cement Co.; Marble Mosaic Co., Milwaukee; Milwaukee Concrete Mixer Co.; Milwaukee Post Mold Co.; Northfield Iron Co., Northfield, Minn.; Peerless Brick Mach. Co., Minneapolis, Minn.; Reichert Manufacturing Co., Milwaukee; Schaefer Manufacturing Co., Berlin, Wis.; Universal Portland Cement Co.; Trussed Concrete Steel Co., Detroit; Van Duzen, Roys & Co., Columbus, Ohio; Waterloo Cement Mach. Corp., Waterloo, Iowa.

#### PLANS AT BUILDERS' EXCHANGE MINNEAPOLIS.

Plans on file Feb. 21, 1914, at the Builders' Exchange, Minneapolis: church, Sioux Falls, S. D., bids open Feb. 21; cottage, Faribault, Minn., Feb. 23; mechanical equipment, cottage, Faribault, Feb. 23; service building, Elliott hospital, Minneapolis, Feb. 24; mechanical equipment, Elliott hospital, Minneapolis, Feb. 24; remodeling bank, Neillsville, Wis., Feb. 24; church, Fargo, N. D., Feb. 26; school, Mount Pleasant township, N. D., Feb. 27; municipal building, Ellendale, N. D., Feb. 27; school Fergus Falls, Minn., Feb. 28; school River Falls, Wis., Feb. 28; mechanical equipment River Falls, Wis., Feb. 28; school, Minot, N. D., Mar. 2; bank and business block, Elbow Lake, Mar. 2; school, Glenfield, N. D., Mar. 3; public school, Toledo, Iowa, Mar. 3; postoffice, Williston, N. D., Mar. 9; Union hospital, New Ulm, Minn., Mar. 2; mechanical equipment, Union hospital, New Ulm, Minn., Mar. 2; high school, St. John, N. D., Mar. 14; theater, Sioux City, Iowa, Mar. 17; church, Aberdeen, S. D., Mar. 20; school, Livermore, Iowa, Mar. 20; school Anoka, Minn.; postoffice and court house, Minot, N. D.

Bids in: store and office building, Mason City, Iowa; addition, Heffernan block, Williston, N. D., school, Hasper, N. D.

Contracts awarded: high school, Des Moines, Iowa, A. H. Neuman, Des Moines, (low); heating and plumbing, high school, Des Moines, Iowa, M. J. Corcoran, Des Moines, (low); north and south wings, school, Faribault, Kingsley and Payant, Faribault, (low), plumbing, Faribault, Worthington & Co., Minneapolis, heating Faribault, P. J. Gallagher, Faribault; Palace theater, Minneapolis, Minn., W. J. Hoy Construction Co., St. Paul; bank, Crookston, Chris Eichoff, Crookston.



*Official Organ of***Minnesota State Association of Builders Exchanges.****OFFICERS**

President—H. M. Gardner, Gardner Hardware Co., Minneapolis.  
 First Vice President—F. J. Romer, St. Paul.  
 Second Vice President—E. J. Zauft, Duluth, Minn.

Third Vice President—O. H. Olsen, Stillwater.  
 Fourth Vice President—W. S. Kingsley, Faribault.  
 Fifth Vice President—Olaf Swendsen, St. Paul.

Secretary and Treasurer—Eugene Young, care Minneapolis Builders' Exchange.  
 Executive Committee—James Leck, Minneapolis; F. J. Nixon, Duluth; J. A. Roberts, St. Paul; Fred Lammers, Stillwater; Jas. O'Neill, Faribault.

*An Association of Over 700 Contractors, Builders, Material Men and Manufacturers of Minnesota.*

**State Mutual Liability Insurance**

ADDRESS DELIVERED AT ANNUAL MEETING OF THE  
 STATE ASSOCIATION OF CONTRACTORS' AND  
 BUILDERS' EXCHANGES.

Duluth, Minn., December 10, 1915. By Elmer H. Dearth.

At the annual meeting of the Minnesota State Association of Builders' Exchanges, held at Duluth, December 10th, the question of organizing a state mutual liability insurance company received considerable attention. After a full discussion of the question, led by a committee who had thoroughly investigated the subject, it was unanimously decided that the scheme was both feasible and practical and the secretary was instructed to canvass the employers and ascertain how many would favor an organization of that kind. The state is now being canvassed and any one wishing information concerning the plan can get the same by addressing the secretary at 300 Warner building, Minneapolis, Minn. The following address was delivered by Mr. Elmer H. Dearth, formerly insurance commission of Minnesota, and now in charge of the Michigan State Mutual Liability Insurance Co.

Investigate and go where you will, but wherever a compensation act, similar to that of Minnesota has been successfully carried out and its problems solved, it has been through mutual organizations of employers.

**THE VALUE OF AN EMPLOYEE.**

The strength of an institution is no more than the strength of the rank and file that serve it.

It took years for governments to discover that bullets are the least of the hazards that confront armies. There are greater foes than an armed force to fight; the foes of carelessness and disease. As a result the leading nations of the world today are spending as much money, if not more, on life saving methods, as they do on agents of destruction.

Good men are hard to find and once found they are worth taking care of. This is not only the philosophy of war departments; it is the philosophy of business today; it is the philosophy of humanity.

The most valuable assets of any business institution are the men on its payroll. They are the moving force that keeps the wheels of industry going. Without them the most wonderful machine ever built would be useless. Extraordinary care is taken of delicate and complicated mechanism; it is guarded carefully against accident; its absence from duty can be computed in dollars and cents loss; the cost of replacing it is definitely known.

Men are the machinery of life. When they are not at the forge, at the bench, at the trip hammer, at the lathe, a loss is inevitable. It is not only good business but good humanity to protect the workman. He should be as carefully guarded as expensive apparatus; he should receive even more thoughtful attention than the stock raiser bestows upon his thoroughbreds.

Every change in a factory's working force means a loss. That institution prospers most that gives most of thought and care to those that make it. The enemy of progress is not indolence, but accident. An injury to a workman is an injury to prosperity.

**MEANINGS OF MUTUAL PLAN.**

The National Association of Manufacturers of the United States, after a most careful and thorough inquiry, concluded "That the present system of determining employer's liability is unsatisfactory, wasteful, slow, and brings antagonistic relations between the employers and the wage workers; that an equitable, mutual, contributory system, automatically providing relief for the victims of industrial accidents and their dependents, is required, to reduce this waste, litigation and friction and to meet the demands of an enlightened nation."

Acting under the direction of the said association, F. C. Schwedman of St. Louis, chairman of the Industrial Indemnity Insurance committee, and Jas. A. Emery, of Washington, D. C., special counsel, both of whom are especially fitted and eminently qualified, through a thorough legal, engineering and business training and organization work, for the difficult role, visited Europe and carefully inspected the operation of the prevailing systems for compensation and preven-

tion of accidents. As a result of their labors, an able treatise was prepared and published by the Manufacturers' National association, under the caption, "Accident Prevention and Relief." It comprises a most valuable work on the subject and should be in the hands of every progressive manufacturer. We quote therefrom as follows:

"Germany and Austria compel insurance in mutual concerns.

"Practically all accident insurance in Germany is of the mutual kind.

"It practically amounts to this: Germany says to her employers, 'Go ahead, you employers; get together, elect your own officers, adopt your own rules and regulations, eliminate waste, friction and red tape. Do whatever is best to get results; the less waste you have, the fewer accidents you have; the less you will have to pay for insurance and the less the nation will have to pay for compensation.'

"It must be remembered that such a high point of efficiency can hardly be attained under any other system.

"First. Because, the employer's associations carry accident insurance on a mutual basis and need make no profits for stockholders, nor do they pay commissions of any kind to solicitors;

"Second. They are headed by employers of high standing and much experience, who devote time and intelligence to a good cause without pay;

"Third. Because prevention is encouraged under this system."

The British Departmental committee, appointed in 1904 to investigate the workings of the British Compensation act, in its report, emphasized the importance of the functions undertaken by mutual insurance associations of employers, as follows:

"If these associations receive further developments and more complete organization and are extended to other industries, the solution of many difficulties which beset the workings of the act, may be found, which will operate in the furtherance of the interests of both employers and workmen."

In the publication of the "Russell Sage Foundation," giving results of investigation of Workmen's Insurance in Europe, by Frankel, Dawson & Dublin, page 32, appears the following:

"Even in competition with stock companies, or as in some countries, with state departments, mutual associations of employers are famous for the economy with which they are conducted."

Legislative committees, in providing these compensation acts for different states, after most careful study and investigation have declared:

"It has been clearly demonstrated by experts, particularly in other countries where this law has been long in force, that strong mutual insurance companies are the cheapest, safest and most satisfactory method by which risks created under such act, can be taken care of."

No one knows exactly, just what the cost may be in carrying out the provisions of the Workmen's Compensation Act of the state of Minnesota; what we do know, is that whatever the cost, the employers of labor must bear it. The so-called casualty insurance companies, in offering to assume the risk, have fixed a sufficiently high rate as will, in their opinion, make certain the usual dividend payments to stockholders, after meeting the policy obligations, the overhead agency expense, etc. As it will naturally be several years before the actual, average cost or expense, can be ascertained under said act, all such excess premiums which may be paid to the regular companies during such experimental period (it being assumed that the guess in the matter of premium payment has been sufficiently high) will be saved to such of these employers as place their risks with a mutual company. By joining together, therefore, and agreeing to indemnify each other, and severally bear the burden imposed under

(Continued on Page 45.)



# PERSONAL AND GENERAL NEWS.

## Doings of the Northwest this Week Boiled Down for Busy Readers

### PERSONAL AND GENERAL.

Further restrictions on the erection of buildings, to insure safeguards against fire, are contained in a report of Building Inspector Houghton to the joint fire and fire prevention committee of the council which is investigating fire insurance rates. The report will be considered at a meeting next Tuesday when Fire Chief Ringer will report on the fighting strength of his department.

Mr. Houghton's report urged the compulsory installation of automatic fire sprinklers in non-fireproof buildings, of which Mr. Houghton says there are many in the business district which constitute a fire hazard. The report recommends that all moving picture theaters be prohibited from operating in frame buildings and that those which do so now should be refused a license in the future. He would also prohibit the use of wooden shingles in industrial districts.

L. O. Hickok, of the firm of L. O. Hickok & Son, engineers and contractors, 619 Flour Exchange, died unexpectedly Monday, Feb. 23, from heart disease. Mr. Hickok has been in business in Minneapolis for the last fifteen years as a designer and builder of grain elevators, storage tanks and grain handling plants, both in wood and fireproof construction. Besides building a large number of country elevators each year, the firm designed and constructed several large concrete plants, among which were the Merchants transfer elevator and a battery of twenty reinforced concrete tanks here in Minneapolis, and also large concrete plants at Great Falls and Kalispell, Mont., for the Royal Milling Co., and at Harlowton, Mont., for the Montana Flour Mills Co. The business of the firm will be carried on by H. M. Hickok under the name of Hickok Construction Company.

Spring Hill Rural Telephone Co., incorporated; place of business, Greenwald, Minn.; general business, erecting and operating rural telephone lines; capital stock, \$10,000; shares \$100 each. Incorporators, J. J. Winter, P. J. Krantz, Nic. Kramer, John H. Emmel and Henry Neitfeld.

Browerville Electric Light & Power Co. incorporated; place of business, Browerville, Minn.; general business, to erect and operate an electric light and power plant, commencing March 1, 1914, and continuing 30 years; capital stock, \$10,000, shares \$100. Incorporators: H. E. Hart, Carl Zahl, Thos. Heid, Lambert Irsfield, C. O. Scow, all of Browerville, Minn.

Nels N. Whim, secretary-treasurer of the Olson & Johnson Co., a Missoula firm of general contractors with an extensive business and offices at Calgary and Edmonton, was a caller at The Improvement Bulletin office last week.

The Builders' Club of the Builders' Exchange, Minneapolis, gave a successful dancing party last evening at Hennepin and Franklin.

G. W. Carlson, general contractor, of Cambridge, Minn., was in the city on business this week. Mr. Carlson built the fine new school at Rederic, Wis., last year.

The Midway Construction Co., of Shawano, Wis., has been organized for general contracting. Temporary office with C. C. Fritz, architect, Citizens State Bank building.

Building Inspector S. M. Kielley of Duluth urges separate poles for electric service. He says: "My position is this, use of the same poles by electric light and telephone companies is a menace to telephone linemen. When such a lineman ascends a pole to make repairs, he is in ignorance of the state of the current on electric lines. This makes frequent casualties by electrification probable. Separate poles should be used."

The Mankato, Minn. Commercial and Automobile clubs are arranging to entertain the newly elected township supervisors, road overseers and members of the county board at a good roads banquet Tuesday, March 24. The Dunn road law will be explained.

Foster Construction Co., Milwaukee, Wis., is now occupying its new offices on the 5th floor, Caswell block addition, room 534.

A. H. and H. O. Naudain, as Naudain Bros., Sioux Falls, S. D., will enlarge their cement block factory. All machinery will be operated by electricity.

C. A. P. Turner returned this week after an extended business trip to New York and eastern cities. He found the New York office of the Turner "Mushroom" system of reinforced concrete unusually busy, with a large staff and a number of new commissions for large structures, most of them in the east. He said times are better in the east than for a long time. The book of the "Mushroom" system will

soon be issued in Spanish, for Cuba, Porto Rico, South America and Spain. It has been published in Dutch by the Holland office of the Turner system.

A. F. Wasielewski, who is building the Catholic church at Tulsa, Okla., costing \$150,000, has made an extended eastern trip to Pittsburgh, Washington and New York, and is now taking a rest at St. Augustine, Fla. He says the city and climate of St. Augustine are fine, but sees little construction work going on down there, in that section.

D. W. Wallace, representative of the American Cast Iron Pipe Co., of Birmingham, Ala., reports a number of large contracts, through the northwestern sales office of the company, Plymouth building, including: city of Minneapolis, 2,000 tons cast iron water pipe, 6 to 12-inches; St. Paul, 1,500 tons, 4 to 20-inches; Winnipeg, Man., 1,000 tons, 6 to 12.

Bryan-Marsh Electrical Works, 315 1st av. N. has removed to 722 Plymouth building.

### ARCHITECTS AND ENGINEERS.

Spokane members of the American Society of Civil Engineers have undertaken the initial steps necessary to effect a local branch of the society. On December 3, 1913, a preliminary meeting was held and C. S. MacCalla, A. M. Phillips and D. H. Sawyer were appointed to arrange for a general meeting of all the Spokane members and at that time to formally prepare application for the branch organization.

Waddell & Harrington, engineers, Kansas City, Missouri, have been awarded the contract for building the interstate bridge between Portland and Vancouver, Wash. Their fee is to be \$65,000 flat. Work has started on the preliminaries.

O. H. Carpenter, architect, Iowa City, is preparing plans for a number of residences, amounting to \$20,000 in valuation; and other buildings to cost \$15,000.

New officers of the Montana Association of Architects are: President, Fred Wilson, Bozeman; secretary, O. F. Wasmansdorff, Lewistown; executive committee, C. S. Haire, Helena; G. H. Shanley, Great Falls, and President Wilson. The next annual meeting will be at Helena, January, 1915.

J. A. Colvin, Sandstone, Minn., was chosen president of the Minnesota Branch of the American Society of Mechanical Engineers at a meeting in the Engineering building, State University; Ralph R. Boyle, St. Paul, secretary; J. S. Hartney, Maynard, vice president; A. W. Holmberg, Ironwood, Mich., treasurer. Mr. Colvin read a paper on "Bonus System in Boiler Rooms." Next meeting March 5, at the university.

Architectural Society of the University of Minnesota will have a smoker Saturday evening, Feb. 28, at 8:15, in the auditorium of the Main Engineering building. There will be a lively exhibition of drawing "stunts" and motion pictures.

Charles L. Pillsbury, consulting engineer, Minneapolis, has been engaged to serve the city as expert in the 70-cent gas case. Mr. Pillsbury is gaining prominence in this field, having been engaged with E. W. Bemis on similar expert work for St. Paul, and as expert adviser at Duluth.

A. R. Van Dyck, architect, Minneapolis, was one of the Minneapolis delegation at the Chicago cement show. He made a special study of cement and concrete.

Hoffman & Mosse, architects, Leland block, Rochester, Minn., a new firm, desire catalogs and samples.

T. R. Atkinson of Bismarck was elected president of the North Dakota Society of Engineers at the recent annual gathering in Fargo; H. C. Frahm, Minot, 1st vice president; City Engineer Frank L. Anders of Fargo, second vice president; Prof. Chandler re-elected secretary and treasurer. J. C. Van Dorn of Minneapolis gave an illustrated lecture on cement manufacture; J. R. Graham, assistant city engineer of Minot, gave an address on Deep Sewer Work at Minot; Eric Martinson gave an illustrated talk on the possibilities of flat slab concrete construction; H. J. L. Lykken of Grand Forks read a paper on Water Softening. Samuel Crabbe, architect of Fargo, was toastmaster at the banquet and responses were given by State Engineer J. W. Bliss, County Surveyor White of Bottineau; G. A. Burch, of Detroit, and others. A paper on Oil Roads by L. R. Gifford, assistant city engineer of Manhattan, Cal., was read by Prof. Slocum of the agricultural college. Prof. Chandler at the banquet urged another trial to pass on engineers' bill for license and schedule of fees for county engineers. Woman's suffrage publications were handed to the engineers as they were about to enter the banquet room and Mr. White read a poem on Suffrage by Walt Mason. The next annual meeting will be at Minot.

Heinmiller & Martin is a new firm of architects at Redfield, S. D. They would like to receive catalogs and samples.



## BRICK AND TILE NEWS

### BRICK COST OFFSET BY DURABILITY.

A report recently made by the committee on fire protection of the Boston Chamber of Commerce includes some interesting figures on the comparative cost of frame and brick construction for dwelling houses, says the Insurance Post. The conclusion was that the slightly greater cost of brick, which averaged under 10 per cent more than frame, was more than offset in a few years by the lesser cost of maintenance and insurance and by the greater comfort and durability of the structure.

The report says that when lumber was cheap and brick was more expensive than now, the idea became general that the cost of brick as compared with frame was almost prohibitive, and this continues although the conditions have changed so radically that the cost is now little more and the ultimate cost is less.

The purpose of the investigation was to encourage the use of brick and non-combustible interior construction for the purpose of fire prevention, and this form of building was very strongly urged by the report. Bona fide bids were obtained from five different contractors of good reputation on the cost of the construction of dwellings of brick, wood, cement and hollow blocks, the houses to be the same in every particular except the outer walls.

Bids were obtained on a modern eight-room house, of good design and excellent arrangement, such as is frequently built in and about large cities, and on these the bids of the five contractors varied comparative little, and so the average was taken as a fair test of the practical cost, the contractors including their profits in all cases. The average bid for the various types was as follows, the second column showing the percentage of excess cost of each type over the clapboard type:

Clapboard .....	\$6,759	.00
Shingle .....	6,868	1.06
Ten-inch brick wall, hollow.....	7,372	9.10
Twelve-inch brick wall, solid.....	7,641	13.00
Stucco on hollow block.....	7,187	6.30
Brick veneer on hollow block.....	7,483	10.70
Stucco on frame .....	6,952	2.90
Brick veneer on boarding.....	7,226	6.90
Brick veneer on studding .....	7,153	5.80

The committee corresponded with contractors in various parts of the country in making up its report, and found from them that brick buildings were commonly estimated to cost 10 per cent more than frame, while brick veneered buildings could be put up in many sections for 5 per cent more than the cost of frame buildings, the difference in cost being usually more than offset by the lessened insurance premium.

In the same way estimates were obtained on annual cost of maintenance, including depreciation, for frame and brick dwellings, and it was found that the frame dwellings cost 26 per cent more for maintenance and depreciation than the brick dwellings.

### ASSOCIATE MANUFACTURERS SUPPLY CO. MOVING INTO NEW CONCRETE BUILDING.

Owing to increase in sales The Associate Mfrs. Supply Co. will, on March 1, be located in a new concrete 2-story and basement building at 612 and 614 5th av. S.

Having outgrown their show-display room at 245 McKnight building, their new quarters will be equipped with an elaborate display of the famous Gilt Edge Hot Water-Steam round and sectional boilers. The High Grade Peerless Selling Co. closet combinations, the pressed metal "Presto" radiation, the Minnesota cast iron radiation, the Ebinger sanitary ventilated wall, enameled urinal and drinking fountains.

Messrs. John G. Roeller and Alfred W. Reichow of the company will be pleased to meet their plumbing and heating friends in their new and commodious up-to-date show display room.

### BOOKLET ON THE "MUSHROOM" SYSTEM.

"Turner system" Reinforced Concrete Construction for Industrial Buildings," is the title of a new illustrated booklet issued by C. A. P. Turner, consulting engineer, inventor of the "Mushroom" system. The headquarters of the system and main offices are in Minneapolis. Many valuable building facts for reinforced concrete construction are given, including causes of failures. A record of tests forms an interesting chapter. The booklet should be read by everyone who intends any such construction. It is illustrated with many pictures of big buildings, throughout the country, in which Mr. Turner's Mushroom system of reinforced concrete was used.

### THE MINNESOTA SURVEYORS AND ENGINEERS ANNUAL MEETING.

There was a good attendance at the annual meeting of the Minnesota Surveyors and Engineers Society in the West Hotel, Minneapolis, this week. The chief questions of interest and discussion proved to be the abolishing of the county surveyor's office and extension of the organization of the Engineers' Society to include all the engineers and surveyors in the state. The question of doing away with the county surveyor was introduced by Louis Knudson, city engineer, of Brainerd, who told of the antiquated conditions surrounding the office and the limitation of compensation of \$4.00 a day, stating that in some counties the annual receipts were not more than \$25.00. In the discussion following, it appeared to be the general belief that the legislature could not be persuaded to abolish the office, but that the ancient statute as to pay could be annulled. Wm. Danforth, retiring president, in his address spoke in opposition to the proposed use of handbooks, on road construction in the public schools. Carl E. Nagel, bridge engineer, high commission, talked on highway bridges; H. B. Childs, on concrete highways; J. H. Mullen, state highway laws. An enjoyable smoker-supper was held in the evening at the West, at which a large number of members spoke in favor of further organization. J. C. Carpenter told of experiences in the Philippines; Chas. E. Estlund, of Kennedy, Minn., highway commission of Kittson county, spoke in favor of an official organ for the state association, to help further the purposes of a larger organization. Others who spoke were: John Wilson, city engineer, Duluth; John Abercrombie, district engineer, Alexandria, who made a strong appeal for increased membership; Chief Engineer Cooley, of state highway commission; H. A. Rogers, Minneapolis; L. C. Bailey, and others.

Officers for the year were elected as follows: Walter Brooks, engineer of Blue Earth county, Mankato, president; John Mullen, assistant engineer highway commission, vice president; Geo. Herrold, assistant city engineer St. Paul, secretary; W. F. Rosenwald, state highway engineer's office, treasurer. The next meeting will be held in St. Paul on account of the legislature being in session. Mankato was a strong bidder and might have won except for the legislative session.

### PRIZE WINNERS OF MODEL VILLAGE HOUSE PLANS.

Prizes awarded in the competition conducted by State Art Society for model village house and grounds were announced this week:

First prize, \$200—Lawrence A. Fournier, 3505 Sheridan av. N., Minneapolis.

Second prize, \$125—Marion Alice Parker, 516 4th st. SE., Minneapolis.

Third prize, \$75—Harry Firminger, 290 University av., St. Paul.

Fourth prize, \$50—Frederick S. Stott, Capital Bank building, St. Paul.

Fifth prize, \$25—Roy Childs Jones, architectural department, University of Minnesota.

Sixth prize, \$25—Ralph Mather and James A. Burner, McKnight building, Minneapolis.

Three hundred and fifty dollars divided into five prizes was awarded to the "Model farm yard" competition, as follows:

First prize, \$150—Phelps Wyman, McKnight building, Minneapolis.

Second prize, \$100—G. E. Wiley, 715 Capital Bank building, St. Paul, and Wilfred Stevens, 3901 Thomas av., Minneapolis.

Third prize, \$50—Harry Baker, 4629 Lake Harriet boulevard, Minneapolis.

Fourth prize, \$25—Allen F. Arnold, 3136 Irving av. S., Minneapolis.

Fifth prize, \$25—A. R. Nichols, 901 Palace building, Minneapolis.

The plans will be on exhibition at the auditorium in St. Paul, and later in the public library building, Minneapolis. The jury comprised: Robert Spencer, Chicago; O. C. Simmons, president A. I. of L. A.; Thomas Holyoke, St. Paul, vice president Minnesota chapter A. I. A.; A. F. Woods, dean agricultural School, U. of M.; Mrs. C. L. Atwood, president State Federation Women's Clubs.

As guests of F. J. Morse, Builders' Material Co., 245 Como av., St. Paul, a party of contractors and architects went to Mason City, Iowa, to inspect the plant of the Northwestern States Portland Cement Co.: H. C. Struchen of the Struchen-Nelson Contracting Co.; John R. Schmit, contractor; Richard Mather, architect; W. T. Lemon, former president St. Paul board of public works; E. J. Fuchs, state representative; E. J. Hall, appraisal engineer; E. G. Minder of Butler Bros., contractors; E. J. Donnigan, representing W. J. Hoy, general contractor; I. A. Grant and H. D. Cline, builders; T. Sloan, representing the Northwestern State Cement Co., and Mr. Morse.



# CONSTRUCTION & CONTRACT NEWS

OF SPECIAL VALUE TO ENGINEERS, CONTRACTORS, BUILDERS AND MANUFACTURERS

## MINNEAPOLIS, MINN.

Office: 912 Lumber Exchange. Phones: N.W. Main 3902; T.S. 2194.  
Please telephone news not later than Wednesday.

*Items Marked with Asterisks Not in Daily Sheets.*

Items marked with asterisk not run in Daily Sheets.

### BUILDING PERMITS.

Marcus Morris and Abe Michlin, 1013 6th av. N., 1-story plaster veneer moving picture theater; Mandel Bros., builders.....	\$6,000
Thomas Jacobsen, 2639 Grand av., alterations.....	1,000
Angeles Villas, 600-02 Hennepin av., alterations to store fronts and also interior alterations; A. Albinson, builder.	3,000
North Star Woolen Mill Co., 6th av. S. and 1st st.; Haglin-Stahr Co., builders.....	2,000
John Mack, 1709 2d av. S., 2-story brick veneer flats (5); C. G. Victorson, builder.....	6,500
A. E. Tyler, 240 20th av. N., 1-story brick addition to store, also alterations and new front; M. Thiesen, builder.....	2,600
T. K. Setre, 3700 16th av. S., 1-story plaster dwl.....	2,100
J. R. Addy, 5116 40th av. S., 1½-story frame dwl.....	2,000
Anna S. Morrison, 2431 Garfield av., altering frame dwl. into duplex, also erect porch.....	1,000
Mary M. Mackey, 4208 S. Upton av., 1½-story frame dwl..	2,000
Twin Cities Cold Storage Co., 300-10 N. 5th st., electric freight elevators (3); Gust Lagerquist, builder.....	7,200
Philadelphia & Reading Coal & Dock Co., 2826 S. Dupont av., 1-story office and scale building.....	1,000
E. H. Conary, 1526-28 E. Lake st., interior alterations in store building; John Dahlin, builder.....	1,500

\*Libby & Nelson, general contractors, Temple Court, were low bidders in the service building letting, University of Minnesota, at \$46,990; Struchen-Nelson Co., Capital Bank building, St. Paul, \$47,960; Charles Skoogun, Ryan Annex, St. Paul, \$49,048; J. & W. A. Elliott Co., Lumber Exchange, Minneapolis, \$49,750; Schuett & Forshee, Lowry Annex, St. Paul, \$49,785; Cameron & Co., Ryan Annex, St. Paul, \$49,798.90; R. J. Cheney & Co., 716 11th av. S., Minneapolis, \$51,283; Johnson Construction Co., \$51,454; N. P. Franzen, Endicott building, St. Paul, \$51,650; J. L. Robinson & Co., 511 S. 7th st., Minneapolis, \$53,701; McMillan, Minneapolis, \$54,000.

Twin City Tile & Marble Co. have contracts for the Chisholm school, Bell Tyrie & Chapman, architects, Gray Construction Co., Watertown, S. D., general contractors; Tyndall court house, Jos. Schwarz, architect, Sioux Falls, S. D.; A. M. Wold Construction Co., general contractors; Denfield school, Duluth, F. G. German, architect, Chippewa Falls Construction Co., contractors; Decker residence, Minnetonka, Purcell, Feick & Elmslie, architects, Minneapolis; school of mines, university.

An apartment building will be built on Hennepin near Lincoln by L. C. Lamoreaux; plans by Long, Lamoreaux & Long, architects, 830 Hennepin; brick and stone, 78x100, 3-story, steam heat, built-in bath tubs, tile floors in bath rooms, tile wainscoting, kitchenettes with tile floors and white enamel finish, birch and mahogany interior finish and doors, white enamel refrigerators, gas stoves, 21 apartments; cost \$40,000; contract to be let in about 3 weeks; building to be completed by August 1.

County board plans four main macadam roads, and will use \$150,000, on road construction; bids are asked on completion, of Brooklyn and Champlin road, 3 miles paving of Long Meadow bridge, Cedar av., over river; plans being prepared for completing Excelsior road at Lake Minnetonka.

\*The Turner mushroom system of reinforced concrete will be used in the construction of a packing plant at Moultrie, Ga., for the Moultrie Packing House Co.; 100x40, reinforced concrete, fireproof. Cost \$80,000. Owners taking figures. F. W. Kinney, architect, Plymouth building.

Plans for addition to the Powderhorn Park pavilion are being prepared by Long, Lamoreaux & Long, architects, 830 Hennepin, and figures will be taken soon; brick and hollow tile, 1-story, 25x40, concrete foundation, cement floors; a good deal of plumbing.

A new theater deal is in progress through Benjamin F. Paust, 208 Plymouth building, real estate, for the Progressive burlesque circuit; Joseph Barton, New York, was in the city in regard to deal; theater to open next fall.

A duplex is being built at 3029 Chicago, by Frank Stromback, 1404 Bryant av. N., 26x45, brick veneer and plaster veneer, concrete foundation, hot water heat, hardwood floors and trim, electric light, \$4,900; day labor.

E. A. Tyler, 2227 N. 6th, is remodeling store at 240, 20th av. S.; 22x30, 1-story, brick, new store front; interior changes,

\$2,600; Haugen & Newstrom, architects; M. Thiesen, contractor, 1905 Logan av. N.

Crosier Investment Co., has prepared plans for alterations in Angeles Villas' store, 600-602 Hennepin; three new store fronts, interior changes, \$3,000; A. Albinson, contractor, Plymouth building.

A new assembly building, to cost \$120,000, is planned by the Minnesota Swedish Evangelical Lutheran conference; write pastor of the Emanuel Lutheran church, Monroe st. and 13th av. NE.

Henry F. W. Busch and Geo. M. Bleeker have filed a petition for a drainage district, Golden Valley, Hennepin county, and hearing will be held March 16, 10 a. m., by county board.

Bids will be received until March 12, for building power house at Coon Rapids dam by Northern Mississippi River Power Co., at office of Minneapolis General Electric Co.

A modern dwelling is being built by Fred C. Bodeman, 36 N. 12th, at 2630 N. Colfax, concrete block foundation, 24x28, 1½-story, frame, hot water heat, \$3,000; day labor.

Plans have been drawn for a 10-story building, Holden av., 7th st., and 3d av. N., as general station and railway office owned by Rock Island road; loss on building, \$50,000.

A modern dwelling is being built by A. H. Hiller, 2627 Lyndale av. N., at 2626 N. Colfax, 24x28, concrete block foundation, hot water heat, 1½-story frame, \$3,000; day labor.

Long, Lamoreaux & Long, architects, 830 Hennepin, will have the plans for the warehouse of the Slocum-Berggren Co., wholesale grocers ready for figures in two weeks.

J. R. Addy, 5024 42d av. S., is building a 1½-story frame dwelling, at 5116 40th av. S., 24x24, concrete block foundation, hardwood trim, gas, day labor, \$2,000.

C. G. Victorson, 3332 Elliott av., has contract for the John Mack flat building, 1709 2d av. S., brick veneer, \$6,500; plans by J. E. Nason, Corn Exchange.

Modern residences will probably be built by W. J. Bowman and F. W. Libby on property just bought between 22d and 24th on Lake of the Isles blvd.

T. K. Setre, 3300 Elliott av., is building a bungalow at 3700 16th av. S., 24x32, plaster veneer hardwood trim, plumbing, gas, \$2,100; day labor.

P. Foss, contractor, will build an automobile garage on Central av.; address all communications to him at 1115 E. 31st st., Minneapolis.

Bids received until Friday, Feb. 27, 2 p. m., for manual training lumber, grade schools, by executive, agent school board, 407 City Hall.

Two bids were received for electric wiring cottage Detention home; Arntsen Electric Co., \$195, for Telltale system, L. M. Colman, \$170.

New bids will be taken by City Engineer Clausen for 20 ornamental light posts, Earl st. viaduct; only iron posts were specified before.

Fire destroyed the old courthouse 4th st. and 8th av. S., owned by Rock Island railroad; loss on building, \$50,000.

Bids received until 1:30 p. m., Feb. 27, by school board, 407 City Hall, for manual training tools, North High.

Fire damaged the Lenhart Wagon Co., plant 2600 University av., SE., \$4,500, and plant closed temporarily.

Fire damaged Svea restaurant, \$1,000, 1321 Washington av. S.

## OMAHA, NEB.

Mail news to Minneapolis office not later than Wednesday.

Kennedy building will soon be ready for finishers on two floors, and preliminary work on construction of new Fontanelle hotel has been started. Joslyn building is up five stories.

A. P. Tukey & Son have awarded contract to E. O. Hamilton for erection of a garage, for Ed. Phelan, at 22d and Farnam st.

Bids were received Feb. 24, 9 a. m., for erection of a steel fireproof garage, to be located at the City Emergency hospital, in accordance with plans and specifications on file with City Clerk Thomas J. Flynn; check 5 per cent.

Albert Borchman Construction Co. has contract for erection of the Leavenworth Hand Laundry building, at 2809-11 Leavenworth st.; 2-story, brick, 44x92, modern throughout, cost \$12,000.



# PROPOSAL ADVERTISING FOR BIDS

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Estimates gladly Furnished Clinton, Iowa

**Valuable to  
Contractors**  
The Proposal Ads in the  
**Improvement Bulletin**

OFFICIAL ADVERTISEMENTS for proposals will be published in this department on receipt of copy with order from authorized official, building committee, architect or engineer.

RATE FOR NOTICES in this department—15c per line each insertion. No discounts allowed. Several insertions are customary to insure full and fair competition.

PRINTED SLIPS are furnished to officials, architects and others interested, for distribution by them, without extra charge.

PROFITABLE INVESTMENT.—It has been the experience of those who have used this medium that by investing a few dollars they have saved hundreds.

COPY RECEIVED up to Friday, 10 a. m., will be published in the paper, delivered to subscribers on Saturday, but should reach the publication office, Lumber Exchange, Minneapolis, earlier in the week, when possible.

LATE NOTICES Friday morning can be transmitted by long distance telephone.

### PROPOSALS FOR BOILER WANTED. New Prague, Minn.

Sealed proposals will be received by the City Council of the City of New Prague, Minn., until 6 o'clock, P. M., Tuesday, March 10, 1914, for a 66-inch High Pressure Horizontal Tubular Boiled in accordance with the specifications now on file in the office of the City Clerk, city of New Prague, Minn.

Specifications may be obtained from the City Clerk or from the office of the Improvement Bulletin, 912 Lumber Exchange, Minneapolis, Minn.

The City Council reserves the right to reject any or all bids.

A certified check made payable to the City Clerk, city of New Prague, Minn., in the amount of ten (10) per cent of the total amount of the bid submitted will be required with each bid as guarantee of good faith.

Address all bids to the undersigned.  
**JOHN F. BRUZEK**, City Clerk.  
City of New Prague, Minn.

### PROPOSAL FOR BIDS.

School, White Bear, Minn.

Sealed bids will be received for the construction of a Parochial School for the St. Mary on the Lake Parish at White Bear, Minn., until 7:30 p. m., March 2, 1914, according to plans and specifications on file at the architect's office, E. J. Donohue, Gilfillan Building, St. Paul, or at the Parochial Residence at White Bear Lake. Each bid must be accompanied by a certified check for \$100.00 as evidence of good faith. The committee reserves the right to reject any or all bids.

(Signed) **CHAS. P. CONWAY**,  
Secretary Building Committee.

(Continued on page 16)

## PROFESSIONAL DIRECTORY

### ENGINEERS

**OSCAR CLAUSSEN ENGINEERING COMPANY**

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Instruments. Write for Catalogue

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A good designer and one capable of handling an architect's office. Have over \$200,000 worth of work on hand and must have some capital.  
Address Box 500, Improvement Bulletin, Minneapolis, on or before March 1st.

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## ST. PAUL, MINN.

404 Scandinavian American Bank Bldg. Phone: N.W. Cedar 1683.  
Mail or telephone news not later than Wednesday.

Items marked with asterisk not run in Daily Sheets.

### BUILDING PERMITS.

near Ridgewood	2,000
John Larsen, 266 Midway, 1½-story frame dwl., Bunker near Woodbury; John Larsen, builder.....	1,700
Hugh Mullarky, 1½-story frame dwl., Randolph; Theo. H. Kuhn, builder.....	2,300
W. C. Knauss, 598 Iglehart, 1½-story frame dwl., 1406 Midway parkway near Holln; W. C. Knauss, builder.....	2,000
Wm. Rodes estate, 2-story brick and stone addition for laundry, 5th near Main; John M. Carlson, builder.....	14,000
Geo. W. Blood, Globe building, 2-story frame and stucco dwl., Grand near Baldwin; Geo. W. Blood, builder.....	4,000
Carl Holm, builder, 612 Warren, alterations and repairs, 626 Warren.....	1,200
Arthur Holmquist, 372 Gates, 1-story frame dwl., Page near Andrew.....	1,800
—MINNEAPOLIS	
C. W. Bennett, 4006 S. Washburn av., concrete foundation and frame addition to dwl.....	1,500
Frank Strombeck, 3029-31 Chicago av., 2-story brick veneer and plaster veneer duplex.....	4,900
Fred C. Bodeman, 2630 N. Colfax av., 1½-story frame Frank; Olof Hallberg, builder.....	1,200
J. W. Watson, agent, Pioneer bldg., alterations to brick dwl.....	3,000
building, substation to postoffice, 4th near Sibley; Oace & Amlee.....	2,000
Olof Hallberg, 1144 Cook, 1½-story frame dwl., Cook near Frank; Olof Hallberg, builder.....	1,200
August H. Hillar, 2626 N. Colfax av., 1½-story frame dwl....	3,000
H. R. Moore, Moore block, remodeling entrance, 189 W. 7th st., near Chestnut; Western Building & Jobbing Co., builders.....	\$1,200
Oscar Moskovitz, 210 14th st., 1-story frame dwl., Ohio near Robie.....	1,200
Oscar Moskovitz, builder, 210 14th, 1-story frame dwl., Ohio near Robie.....	1,200
J. W. Watson, agent, Pioneer bldg., alterations to brick building, sub-station to postoffice, 4th near Sibley; Oace & Amlee.....	2,000
Olof Hallberg, 1144 Cook, 1½-story frame dwl., Cook near	

Frank Teweese, architect, Endicott building, has prepared plans for a large modern suburban residence, at Lake Minnetonka, on St. Albans Bay, Excelsior, for S. E. Barker, Excelsior; brick, 2-story, 48x46, hot water heat, brick mantle, billiard room, plumbing, wiring, conduit system, septic tank, hardwood floors and finish, birch and quartersawed oak, slate roof, sleeping and dining porch, concrete foundation, casement windows, vacuum cleaner system, bookcases, sideboard, breakfast nook, art glass; owner taking figures.

H. A. Sullwold, architect, Commerce building, reports contract for electrical work let to Twin City Gas Fixture Co. on new club house, for Automobile club of St. Paul at White Bear lake; plumbing and heating to L. Nienaber; furniture, decorating and kitchen equipment will be let by purchasing committee of club; C. E. Davies, general contractor, White Bear; club will install septic tank and sewage disposal system.

P. J. Linhoff, architect, Germania Life, is making plans for a 5-flat building on Avon near Grand, for Wolf & Marx; brick, modern, steam heat, sleeping porches with wall beds, vacuum cleaner system, refrigerators, gas stoves, tile bath and vestibule; plans ready next week; architect will take figures.

Plans are out and owner is taking figures on the store and hall building at Adams, Minn., for H. J. Krebsbach; 48x80, two stores, hall with stage, brick, plate glass, metal bars, steel, steam heat, probably independent lighting plant; W. J. Keefe, architect, Union block.

P. J. Linhoff, architect, Germania Life, reports contract let for the department store at Fairmont, Minn., to Beckwall & Widell, general contractors, Mankato; general contract for Ray Murphy residence, Stillwater, to Otto Biegen, Stillwater.

Mather & Burner, architects, Pioneer building, will have plans ready March 2, for the addition to the Ramsey school; plans will be at St. Paul Builders' Exchange and the office of the architects, 1415 Pioneer building; brick, 2-story, fireproof.

A. H. Wheeler, architect, Globe building, submitted revised plans this week for West St. Paul school, with south wing of two rooms omitted, leaving complete 4-room school, with opportunity for six rooms; new bids will be taken soon.

The project for a private hospital in Midway was revived in reports this week which stated that plans had been drawn; Snelling between St. Anthony and Shields, cost \$50,000; Dr. Fred Leavitt, 910 Lowry building.

O. H. Round, architect, Oppenheim building, will have plans out this week for figures, to be in about March 10, for equipment, including fixtures, of the Security Bank, Faribault, Minn.; plans by Ellerbee & Rounds.

W. J. Hoy Construction Co., Metropolitan Theater block, were successful bidders for general work on the \$250,000 Palace theater, Minneapolis, which will be built by Geo. Benz; work started.

The Citizens' State Bank, mentioned in this column last week, contracts for which were awarded to A. Moorman & Co., St. Paul, who is building and equipping it, is at New Ulm, Minn.

E. J. Donohue, architect, Gilfillan block, has completed plans for a residence at Brainerd, Minn., for E. O. Webb; frame, stucco, hot water heat, fireplace, all modern; owner will take bids.

O. H. Round, architect, Oppenheim building, is taking figures on the residence for Dr. F. D. Parker, White Bear; frame, stucco, all-year house, hot water heat, entirely modern.

O. H. Round, architect, Oppenheim building, will have plans out in about three weeks for a modern residence at Menomonie, Wis., for Dr. Bryant; hot water heat, brick and stucco.

Work started on 3-story brick and terra cotta building for A. and O. Bremer, 4th and Minnesota, Lauer Bros., general contractors; cost \$50,000; 4-story, offices upper floors.

O. H. Round, architect, Oppenheim building, will take figures on residence for Dr. E. H. Whitcomb, 426 Lowry building; frame, stucco, modern, sleeping porches, 38x40.

Specifications are out for bids on marble, tile, and Teraza, and plain and ornamental plaster, Arcade building, 7th st.; Buechner & Orth, architects, Shubert building.

County board will purchase five or six-ton motor truck and trailer, all bids for steam traction engine and tram cars having been rejected; G. J. Ries, county auditor.

Hugh Mullarky, Tuscarora st., is building a 1½-story frame dwelling on Randolph near View; 24x26; plumbing, gas, contract to Theo. G. Kuhn, 1076 Pleasant.

Geo. W. Blood, Globe building, has taken out permit for the modern residence he is building on Grand near Baldwin, 2-story, frame and stucco, \$4,000.

Oace & Amlee, 662 Rondo, have the general contract for alterations in the brick building on 4th, between Sibley and Wacouta for postal sub-station.

Contract was awarded to Illinois Bridge Co., by county board, for two ornamental reinforced concrete bridges, near Kohlman's lake, at \$9,480.

Time for figures on St. Alexius hospital, Bismarck, was extended to March 3, one week; Buechner & Orth, architects, Shubert building.

Mather & Burner, architects, Pioneer building, won one of the prizes in the competition of the State Art Society for a model village dwelling.

H. E. Erickson, architect, Union block, is taking figures on the theater in remodeled store at 437 W. 7th, for Samuel Labovitch, 228 E. 14th.

Axel Ostling, 707 Hawthorn, is building a bungalow on Milton, near Ridgeway, 26x36, frame, hardwood trim, plumbing, gas, \$2,000.

W. C. Knauss, 598 Iglehart, is building a 1½-story frame dwelling, 26x26, hardwood finish, plumbing, gas, \$2,000; 1406 Midway.

Chas. Skooglun, general contractor, Ryan annex, has started work on model school at Winona; sub-contracts will be let later.

John Larson, 266 Midway, is building a 1-story frame dwelling, 24x26, plumbing, gas, day labor; Bunker near Harvard.

Contract awarded to Haggert Construction Co., Fargo, for 12,900 feet water main laying at \$23,571.

Report is circulated that J. J. Hill may purchase Jackson st. frontage, 4th to river.

Fire damaged the building of the Parisian Cloak Co., 395 E. 7th., total loss \$25,000.

## HEAD OF THE LAKES

Office: 206 Manhattan Building. Telephone: Auto 3036.  
Mail or telephone news not later than Wednesday.

### DULUTH.

Four new residences are now in prospect for Duluth's East End district, according to reports from the different architects. Frederick W. Perkins, of Chicago, who recently opened offices in the Alworth building, is preparing plans for three of the residences, one for Cassius G. Bagley, one for George A. French and one for F. A. Cokefair. The Bagley residence will be brick, stucco and red tile and will be modeled on Italian lines. In addition to these three, F. G. German, of Duluth, is preparing plans for a residence at 21st av. E. and 1st st. for Bernard Silberstein. Plans call for brick and stone trimmings. The cost of the residence has been estimated at \$14,000.

The Dickerman Investment Co. has arranged to build a handsome moving picture and vaudeville theater on 1st av. W. between 1st and Superior sts.; fireproof throughout, with front of stucco, and a marble vestibule. According to the plans, it is designed to be complete and modern in every detail. Provision is made for the installing of a hotel and restaurant at one side, with the theater entrance to occupy the



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#### BIDS FOR HOSE WANTED.

St. James, Minn.

Bids will be received by C. Larsen, City Recorder, St. James, Minn., until 8 p. m., March 9, 1914, for furnishing 500 feet of 4-inch fire hose.

## PROPOSAL ADVERTISING FOR BIDS.

### PROPOSALS FOR MUNICIPAL BUILDING.

Ellendale, North Dakota.

The undersigned hereby gives notice that sealed proposals for the erection of a two-story Municipal Building (brick) including all labor and material, will be received by the City Council, of the City of Ellendale, North Dakota, at the office of the City Auditor, until the hour of 1 P. M., Tuesday, March 17, 1914.

All bids must be in strict accordance with the plans and specifications prepared by J. W. Henry, architect, Aberdeen, South Dakota, which may be seen at the office of the City Auditor, Ellendale, N. D.; J. W. Henry, Architect, Aberdeen, S. D.; the Builders' Exchange, Fargo, N. D., and Builders' Exchange, Minneapolis, Minn.

Bids for heating and plumbing will be received at same time and place. A certified check for \$500.00, payable to the order of the City Treasurer Ellendale, N. D., must accompany each bid, which check shall be forfeited to said city if the successful bidder fails to enter into contract and execute a bond as provided by law. The checks of all unsuccessful bidders will be returned to them immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the full amount of the contract, conditioned upon the faithful performance of said contract.

Bids must be securely sealed, and addressed to John King, City Auditor, Ellendale, N. D., and plainly marked on outside of sealed envelope, "Proposal for Municipal Building," and those for heating and plumbing marked "Bid for heating and plumbing, Municipal Building."

The right is reserved to reject any or all bids.

Ellendale, North Dakota.

February 18, 1914.

JOHN KING,  
City Auditor.

### NOTICE TO CONTRACTORS.

Building for Poor & Insane, Waterloo, Iowa.

The undersigned hereby gives notice that sealed proposals for the erection of a building for poor and insane, including all labor and materials, will be received by the Board of Supervisors of Black Hawk County, Iowa, until the hour of 2:00 p. m., on the 20th day of March, 1914.

All bids must be in strict accordance with the plans and specifications prepared by J. G. Ralston, Architect, Waterloo, Iowa, which may be seen at the office of the County Auditor, Waterloo, Iowa, and of the Architect after March 6, 1914.

Separate bids will be received on the following:

(a) General Construction of building including electric plant.

(b) Heating and Plumbing.

Each bid must be accompanied by a certified check for 5 per cent of the amount of the bid, all checks to be made payable to J. J. Rainbow, county auditor. Checks will be returned to unsuccessful bidders at once on letting contract.

The successful contractors will be required to give satisfactory bond in amount equal to 25 per cent of amount of bid.

Bidders desiring plans and specifications may obtain same from the Architect upon the payment of \$15.00 which will be returned upon the return of plans accompanied by a bona fide bid.

The right is reserved to reject any or all bids.

J. J. RAINBOW, Auditor.

### NOTICE TO PAVING CONTRACTORS.

Nevada, Iowa.

The City of Nevada, Iowa, will receive bids until 8:00 o'clock, P. M., on March 11, 1914, for approximately 21,000 square yards of concrete, brick or asphaltic concrete pavement.

Specifications and bidding blank may be obtained from R. A. DAVIS, City Clerk.

(Continued on page 18)



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and Ornament Co.**  
ST. PAUL, MINN.



remainder of the ground floor. Its cost is estimated at \$30,000. Plans prepared by Holstead & Sullivan, architects.

Contracts in connection with the remodeling into offices of the quarters formerly occupied by the Kitchi Gammie club at the corner of 1st st. and 3d av. W., were let this week by John A. Stephenson & Co., its rental agents. Frank Carlson obtained the contract for the masonry work; the Crown Iron Works the iron work, and Norman McLean for the installing of the tile and marble. An electric elevator will be installed by the Otis Elevator Co.

W. Edward Gustad has been awarded the general contract for the W. S. Pitt block at Crosby. The ground floor will be occupied by the First State Bank of Crosby and a store, with the second floor to be fitted for apartments. It will entail an expenditure of \$18,000. The plans were prepared by Vernon J. Price & Co., architects.

Commissioner Leonidas Merritt, head of the division of public utilities, will endeavor to secure a new building for the water and light department this year. It is estimated that a building which will be ample to meet the needs of the department for many years can be erected for \$36,000.

A. Fieldman will build a brick building at 314 N. Central av. this spring, to cost \$12,000. The building will be two stories high, 125 feet by 25 feet and contain a full basement. It will be used for general merchandise. It is expected that work on the new structure will begin April 1.

F. G. German, architect, has prepared plans for the building to be occupied by the J. J. Le Tourneau Printing Co., adjoining the Wolvin building; 50x140, 2-story, brick, cost \$18,000; day labor.

The mayor announces that a portable rock crusher will be purchased by the city in order to expedite the work of resurfacing boulevards, etc.

Condemnation proceedings will be begun to secure the property for the new armory at 13th av. E. and London road.

#### SUPERIOR.

Building permits were issued a few days ago to R. W. Runion for a residence at 1102 N. 16th st., to cost \$2,600, and at 1117 Harrison av., to cost \$2,800. Anderson & Swanlund were given a permit to erect an ice house at 1824 N. 58th st.

Plans completed about Feb. 27 for the Y. M. C. A. building, swimming pool and gymnasium, club rooms, cafeteria and dormitories; 100x120, four stories and basement, \$85,000; E. W. Barber, architect, Hammond building; address Dr. R. O. Ogilvie, 12 U. S. Bank building.

The Commercial Club is interested in a proposition for a big blast furnace; nothing definite, but the remarkable success of a similar project in Youngstown, Ohio, leads to the belief that a similar success could be made at Superior.

Petitions will be circulated asking that the question of building a municipal auditorium be put before the people at the spring election.

## MILWAUKEE, WIS.

Office: Hathaway Building. Telephone: Main 1827.  
Mail news to Minneapolis office not later than Wednesday.

#### BUILDING PERMITS.

H. Hanson, Delaware and Northwestern av., store and flat	4,800
Max Molt, 16 Locust, frame flat	2,800
M. Goodsett, 734 16th st., alterations	3,000
John Wallermann, 28th st. near Auer, flat	3,300

Architect C. W. Valentine, 428 Jefferson st., is preparing plans for a residence to be erected for W. E. V. Shaw on Summit av., between Linwood av. and Folsom pl.; to be of brick veneer construction, 37x45, with hot water heating. The same architect will be ready some time next week for bids on erecting a bungalow for Duncan Campbell at Cudahy; to be frame and stucco, brick foundation, 28x38, hot water heating; plans are also being prepared for a residence for Hugo Stoltz at E. Milwaukee; brick veneer and stucco, 35x46, hot water heating. The architect is about ready for bids for remodeling cottages into a flat and building a new garage in the rear for Mrs. R. Kroll at 410 Greenfield av.; flat of brick and hollow tile, 2-story and basement, 50x50; furnace heating, asphalt roofing.

Architect Clare Hosmer, Wells building, is preparing plans for a residence of brick veneer and stucco construction, 31x40, with hot water heating, for erection on Woodlawn Court, Story Hill; garage of similar construction; F. J. Olson, owner. The same architect is preparing plans for a band pavilion, boat stalls and repair shop for C. A. Shattuck to be erected on the Fox river; to be 2-story, of tile construction, 130x32, stucco exterior, Spanish tile roof, reinforced concrete floors.

Architect B. S. Scheiderer, 414 Merrill building, began taking bids Feb. 24, for the erection of a village hall and engine house building at Thiensville; to be of solid brick construction, 30x50, with composition or prepared roofing; cost \$5,000; Wm. Selley, village clerk, Thiensville, Wis.

Architects Martin Tullgren & Sons, 133 2d st., have awarded contracts for work on 2 apartments to be erected on the east side; at Cane pl. and Prospect av.: excavating, Peter Froemming; mason, General Construction Co.; concrete and cement, Meyer Construction Co.; plaster, Marggraff Bros.; sheet metal and Spanish tile, Jos. Romberger; roofing, Winding & Gezelschap. At Webster pl. and Farwell av.: excavating, A. Manger; carpenter, R. A. Owens; mason, Riesen & Wielke; cut stone, General Construction Co.; concrete and cement, Meyer Construction Co.; plaster, Marggraff Bros.; sheet metal, E. B. Tonnsen; roofing, Winding & Gezelschap; each apartment cost about \$55,000.

County highway commissioner H. C. Kuelling has awarded contracts for cement at points in county where concrete roads will be constructed this summer: Taylor Button Co., North Milwaukee team track, \$1.54; Milwaukee Cement Co., Whitefish Bay road at \$1.54; Pennsylvania Coal & Supply Co., town of Granville at \$1.56, town of Oakland at \$1.54, North Fond du Lac road at \$1.81, at north end and \$1.76 at south end.

Architect Charles H. Tharinger, 2324 State st., is working on plans for a duplex flat to be erected for Theodore Saveland on 23d av., south of National av.; to be frame with brick foundation measuring 26x50; cost \$6,000. The same architect will be ready for bids next week for erecting a residence at 59th st. and Grand av. for F. W. Starck; it will be frame and stucco, 2-story and basement, 32x28; cost \$4,200.

Architect Fred Maettig, 3268 North av., has plans completed for remodeling a residence on Cherry st., near 4th st.; bids on carpenter, sheet metal, plumbing and painting; owner to do plastering; cost, \$2,600. The same architect has prepared plans for Leo Rehn, 1165 19th st., who will take bids himself for erecting a duplex flat, 24x48, at 19th and Locust sts.

The city of Milwaukee has awarded to the Milwaukee Corrugating Co. a contract to provide a 20x60 galvanized portable cottage at the Blue Mound tuberculosis sanitarium; to be used temporarily as kitchen and dining room until permanent improvements can be made in spring to replace burned section and also provide additions at over \$50,000.

Architects Van Ryn & De Gelleke, Caswell block, are taking bids this week for erecting a mausoleum at Marshfield, Wis.; to be of granite construction, 14x14. These architects are also taking bids until Feb. 28, for erecting the 3-story and basement, 98x134, state normal school building at River Falls, Wis.; cost \$110,000.

A new \$125,000 church structure and \$50,000 parochial school building are to be erected at Teutonia av. and Lee st. by the Immanuel Lutheran congregation, Rev. Carl F. Dietz, Garfield av. and 12th st., pastor. The architect has not been selected nor have definite plans been decided upon.

George Luckow, contractor, West Allis, has been awarded the contract for erecting a cottage on Woodlawn av., for Chas. Gebhardt, to cost \$2,000; also, for erecting a cottage on 73d av., for Chas. Marsh, to cost \$2,000, and for remodeling a residence for Thomas Kitchen, on 46th av.

Architect Anton Dohman, Metropolitan block, is taking bids now for erecting the new church building for the Christ Lutheran congregation at Stoughton, Wis.; to be of brick veneer construction, 130x42, with steam heating, cut stone, asphalt shingles, plate and art glass.

Architect A. C. Eschweiler, Goldsmith building, will have plans ready for bidders in about a week or ten days for the erection of 3 dormitory buildings at the state tuberculosis sanitarium at Wales, Wis.; to be of tile construction, with stucco exterior, each 30x50.

Architect Robert Schmitz, Berlin Arcade building, is taking bids for erecting a duplex flat for Mrs. Anna Mahon; to be brick veneer and stucco, 2-story and basement, 27x57; hot water heating, tile, plate and art glass; cost \$6,000.

Architects Siebert & Bruecker, 557 12th st., are working on plans for a duplex flat to be erected on Hi-Mount blvd., near Washington park; to be brick veneer and stucco, 2-story and basement, 27x56; bids about March 9; cost \$7,000.

Jos. A. Hansen, carpenter, 471 24th av. is taking bids for the erection of a bungalow on 24th av., near Scott st.; to be 24x40, of frame construction; bids on cut stone, tile, asphalt shingles, lumber, interior work; cost \$4,500.

Architect John Menge, Jr., Matthews building, is working on plans for a cottage to be erected at Theresa, Wis.; to be of frame construction on stone foundation measuring, 24x36, stucco exterior; furnace heating.

Architect Hugo Miller, M. & M. Bank building, ready for bid on erection of duplex flat on Windsor pl., near Farwell av., for Miss Fannie Gassmann; to be of frame construction, 25x50; cost \$5,000.

Architect George Ehlers, 721 3d st., has awarded contracts for the masonry on 3 duplex flats to August Rickman & Son; to be erected for Walter Kloth on 16th st., between Ring st. and Concordia av.

Architect Walter Neuman, 1130 26th st. has completed plans for a bungalow to be erected on 25th st. for A. Huber;



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MINNEAPOLIS

## PROPOSAL ADVERTISING FOR BIDS

### PAVING.

#### Monticello, Iowa.

Sealed proposals will be received by the City Clerk of the city of Monticello, Iowa, until 8 o'clock p. m., March 19th, 1914, and then opened, for the construction of approximately 12,400 square yards of paving, 10,350 lineal feet combined curb and gutter, 1,215 square yards extra grading. Bids on cement concrete, Dolarway and vitrified brick block pavements will be asked. Payment to be made in special assessment certificates. Each bid to be accompanied by check payable to order of City Treasurer for \$500.

The City reserves the right to reject any and all bids.

Plans may be obtained of the City Clerk, by sending certified check for

\$15.00 which will be returned, if plans are returned within ten days of receipt.

C. J. NORTHROP,  
City Clerk.

### NOTICE TO CONTRACTORS.

#### High School, St. John, N. D.

Sealed proposals will be received by Wm. Schull, President of the School Board at St. John, North Dakota, up to 12 o'clock, m., Mar. 14th, 1914, for the erection and completion of an addition to and remodeling of the St. John High School Building.

Plans and specifications may be seen at the office of Mr. O. D. Zellner, Clerk of the School Board, St. John, North Dakota, at the Builders' Exchanges at Minneapolis and at the office of J. A.

Shannon, Architect, Devils Lake, N. D.

Each proposal must be accompanied by a certified check for at least Five Per Cent of the amount of the proposal, made payable to Wm. Schull, President of the School Board, as a guarantee that the successful bidder will enter into contract and furnish satisfactory bonds for the faithful execution of the work.

The right to reject any or all bids is reserved.

WM. SCHULL,  
President of School Board.  
By O. D. ZELLNER, Clerk.

### BIDS ON THEATER WANTED.

#### Sioux City, Iowa.

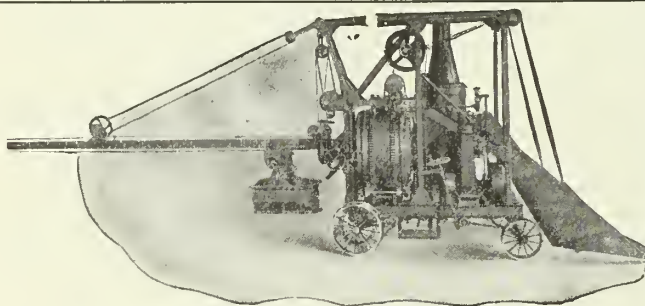
Sealed proposals, directed to John Biegger, care of Colonial Theater, Sioux City, Iowa, and endorsed "Theater Building" will be received on or before the 17th day of March, 1914, at 4 o'clock, P. M., for the labor and material required in the erection and completion of the New Empress Theater and Office Building in Sioux City, Iowa, according to plans and specifications prepared by Joseph Schwarz, Archt., Sioux Falls, S. D.

Each bid is to be accompanied by a certified check of a sum equal to 2 per cent of the bid, and made payable to John Biegger.

Plans are on file at the office of the Colonial Theater, Sioux City, (5 sets) and at the Builders' Exchanges in St. Paul and Minneapolis.

Contractors desiring the loan of a set for their own use, can obtain same from the architect, upon a deposit of \$25.00, one-half of which will be refunded upon the return of plans at the time of let-

(Continued on page 20)



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Productive capacity over  
— 50,000 barrels per day

Largest in the  
— the World —



to be of brick veneer construction, 26x46, furnace heating; bids being taken.

The department of public works, F. G. Simmons, commissioner, has awarded a contract for 12,000 bags of Portland cement to the Western Cement Co., at \$1.27½ net.

P. H. Rhatigan, 64th and Greenfield avs., West Allis, has sketch plans for a 2-story, 60x120, brick store structure to be erected this spring at 65th and Greenfield avs.

## ❑ SIOUX CITY, IOWA ❑

Sioux City Office: 310 Iowa Building; R. V. Sager, Representative.

### BUILDING PERMITS.

H. W. Wenderlindon, frame dwl., Rose Hill add., 3,000  
B. F. A. Ross, frame dwl., Metropolitan Park add., 1,000

F. E. Colby, architect, Davidson building, is drawing plans for a store and office building for Tregilgus & Meader, at Sibley, Iowa. It will be brick construction, two stories, 70x80, patent store front, and will cost about \$20,000.

Wm. L. Steele, architect, United Bank building, is drawing plans for a brick veneer house for John A. Newton, at 25th and Nebraska sts. It will be two stories, have hot water heat and modern plumbing. Cost about \$12,000. The plans are about completed.

Bids will be opened March 18 for the erection of the school building at Elk Point, S. D. Geo. W. Burkhead, architect, Grain Exchange building.

Bids will be opened March 16 for the warehouse for the Palmer Fruit Co. Beuttler & Arnold, architects, Security building.

## ❑ WINNIPEG, MAN. ❑

The board of management for the greater Winnipeg district, have awarded contract for the construction of a line of railway from Winnipeg to Shoal lake, to Northern Construction Co., the contract is for grading and laying of steel only and cost is \$500,000.

J. R. Colby, managing director of Canadian Carbonate Co., Ltd., is in city completing arrangements for erection of a plant to manufacture Carbonic acid gas in St. Boniface on Archibald st., in meantime office is at 120 Lombard st., Winnipeg.

A new 28 suite fireproof construction apartment block will be erected on Maryland st. and will be known as the Scott Apartments, to cost \$80,000. The Daykin-Scott Construction Co., took out permit for same and E. Prain is architect.

Tenders are wanted to March 10, by assistant engineer H. H. Pinch, Transcona, Man., for erection and construction of sawdust exhaust system to be erected in car shops plant of National Transcontinental Ry. at Transcona, Man.

Tenders are wanted to March 2, by chairman, board of control, for supply of labor and materials required in construction of pipe lines from No. 1 pumping station, McPhillips st. to the end of present 36-inch pipe line.

The board of control have decided to give contract for the erection and placing of footings for new duplicate transmission line from Lac Du Bonnet to Point Du Bois, to Wm. Newman and J. McDonald of Winnipeg.

Contract for steel rails for Greater Winnipeg water project was awarded to the Algoma Steel Corporation; contract for steel splice bars for Greater Winnipeg water project was awarded to Steel Co. of Canada.

A permit was taken out by A. S. Knight, who will erect a new apartment block of latest modern construction to cost \$37,000 on corner of Chestnut and Preston; Jordan & Over are the architects.

Contract for furnishing of switches, flanges, frogs and miscellaneous track accessories for Greater Winnipeg water project was awarded to the U. S. Steel Products Co. who have offices at Winnipeg.

The International Harvester Co. took out permit for erection of a 3-story modern brick construction apartment block on corner of Mulvey and Lilac sts., to cost \$60,000; H. Glenser, is architect.

The following building permits were issued: Cohen & Shackleton, 3-story brick construction apartment house on corner of Jeffrey and John st.; cost \$70,000; M. Blankstein is architect.

Tenders are wanted to March 25, by Indian office, Winnipeg, for erection of six residences, four stables and one office and storehouse building combined for different towns.

Contract for supply of 1,000 tons of steel pipe costing \$35,410, was decided by city council to be given to the American Cast Iron Pipe Co., of Birmingham, Alabama.

Tenders are wanted to March 1, by W. Gorham, secretary-treasurer district Birds Hill, Man., for erection of brick and stone school building at Birds Hill, Man.

Contract for the construction of three dwellings for the divisional engineers of Greater Winnipeg water project was let to J. F. McInnis, of Winnipeg.

The council of the town of Tuxedo, suburb of Winnipeg, will make some local water main construction improvements. E. Smith is town clerk.

The Daykin-Scott Construction Co. will also erect a factory and offices of brick construction for their own use on Higgins av., to cost \$18,000.

The Wm. Galloway Co., of Waterloo, Iowa, U. S., have purchased site and will erect an agricultural implement plant in St. Boniface, Man.

The Credit Home Builders' Ltd., will erect on corner of Wolfe and Union st., in Elmwood, a dwelling and store to cost \$2,000.

New tenders for construction of fire escapes on new civic King George isolation hospital will be called shortly.

A public comfort station will be erected here, on corner of Main st. and Portage av. by the city.

Issued by the Hooper Publishing Co., 322 Donald st., Winnipeg.

## ❑ DES MOINES, IOWA ❑

Bert N. Mills, Representative, 310 Hubbell Building.

J. P. Jepson, of Cedar Falls, was elected president of the Central Iowa Lumbermen's Association at its annual convention here this week. Other officers named are: Vice president, Stephen Brown, Waterloo; secretary-treasurer, O. T. Barry, Cedar Rapids; directors, Lawrence Ellis, of Vinton, C. D. Rose, of Dubuque, and D. E. Baker, of Traer. The figures are believed to be incomplete. They indicate a attending. Choice of a convention city for next year was left to the executive committee. Resolutions calling for community improvement and for co-operation with the National Association of Retail Merchants were adopted. The president was instructed to name a legislative committee to work for the adoption of a graduated demurrage law.

Morrison & Throne, local architects, are drawing plans for an apartment house to be built this spring at 19th st. and Cottage Grove av., by C. E. Fletcher. It will be 3 stories high, faced with brick, heated with steam, and modern in every detail. A restaurant and bakery will occupy the first floor and 29 sleeping rooms, arranged in suites, will be provided on the second and third floors. Rooms will be rented to women only. All will be fitted with lavatories, hot and cold water, disappearing beds, etc.

The official board of the Central Church of Christ has approved plans for a church addition 53x86 feet. It will be built in the rear of the present church and will afford a dining room to seat 500, a children's play room, a pastor's study, rest rooms, and church parlors. Work is to be finished before autumn.

Latest building statistics show that 613 buildings were erected in Des Moines in 1913, at a total cost of \$1,755,759. The figures are believed to be incomplete. They indicate a falling off as compared with 1912, but that year was one of the highest building years in the history of the city.

Farmers in the vicinity of Glidden have joined in a movement to secure the construction of a power line which is to furnish electricity for light and power to many farmers living within a radius of six miles of that city. The current is to be supplied by the local plant.

Council Bluffs boosters, Commerce Counsel J. H. Henderson of the state department of justice, and officers of railroads entering Council Bluffs will confer in Chicago March 10 regarding plans for a new union depot in that city.

The Taylor-Patten Grain Co., of Des Moines, announces the lease of the old starch factory in this city and that the plant will be rebuilt to serve as one of the largest grain elevators in Iowa, with a capacity of 250,000 bushels.

Construction work is to begin April 1 on a new church for the Cumberland Presbyterian congregation at Maxwell. The contract has been awarded.

## PARKS AND CEMETERIES

Notes Arranged Alphabetically by States.

**Iowa, Sioux City**—Sioux City Baseball club has commissioned architect W. L. Steele to draw plans for a grandstand, to be erected in Missou Park, to replace after fire.

**Minn., Hibbing**—Extensive improvements are to be made in the local parks.

**Mont., Great Falls**—Bids received until March 2, 8 p. m., for furnishing all material labor, tools and appliances for construction of a standard boulevard on 15th st. plans at office of city engineer; check for 10 per cent; W. H. Harrison, city clerk.



**KEEP TALKING---LINO FELT--"Between you and the weather"**

If the cold of winter prevents you working on the outside, there is still time to save your customer money on his fuel bill by putting LINO FELT between or over the studding. This is **inside** information. Talk to him about putting LINO FELT in the walls and roof of his home not only because he can save fuel in winter, but because LINO FELT keeps the heat out in summer, and the sound waves stop when they meet LINO FELT, insuring Comfort the year around.

**UNION FIBRE COMPANY, --: WINONA, MINNESOTA**

**PROPOSAL ADVERTISING FOR BIDS****NOTICE TO CONTRACTORS.**

**Church, Delano, Minnesota.**

Sealed proposals will be received by Rev. Stephen Zdechlik at Delano, Minn., until 8 o'clock P. M., March 21st, 1914, for all material and labor as herein-after specified, required in the erection of a Church for the Church of St. Marys at Franklin Township, Minn., according to Drawings and Specifications, copies of which are placed in both Builders' Exchanges, St. Paul and Minneapolis, and any other information may be had on application at the office of the architect, Victor Cordella, Kasota block, Minneapolis, or from the Rector.

Proposals to be made on prepared forms furnished by Architect or Rector on application. Proposals in any other form will not be considered.

Each proposal must be accompanied by a certified check for the sum of \$500.00, made payable to the Rev. Stephen Zdechlik, Rector.

Proposals must be enclosed in sealed envelopes, sealed and addressed "Proposal for St. Mary's Catholic Church," addressed to Rev. Stephen Zdechlik, Delano, Wright County, Minn.

The contractor to whom is awarded

the contract will be required to furnish a Surety Bond from a reliable company for the full amount of the contract.

The right is reserved to reject any or all proposals.

**SCHOOL BIDS WANTED.**

**Lohrville, Iowa.**

Sealed proposals are wanted immediately for the erection of a 12-room school building at Lohrville, Iowa, including all labor and material, by Irving Jenkins. For further information apply to Irving Jenkins, president, Lohrville, Iowa.

**NOTICE TO CONTRACTORS.**

**Church, Ryder, N. D.**

Bids for Presbyterian Church Building will be received up to 8 o'clock, P. M., March, 23, 1914:

First. For Building Complete above basement.

Second. For all necessary Lumber, Lath, Brick, Wood Fiber, Plaster, Tar, Felt Doors, Windows, etc., Brick for chimneys from Basement Floor.

Third. For all Hardware, Paint, Oil and Varnish.

Fourth. For all Carpenter work,

Painting, Plastering, including chimneys all of above Basement. All according to plans and specifications now on file at office of B. A. Dickinson, Ryder, N. D.

The Board Reserves the Right to Reject any or all bids.

By order Board of Trustees.

A. C. O. LOMEN,  
Secretary.

**CHURCH BIDS WANTED.**

**Terrill, Iowa.**

The Board of Trustees of the M. E. church of Terrill, Iowa, will receive sealed bids for the building of the new Brick Veneer Church. Said bids to be opened March 20, 1914. Plans and specifications will be mailed to bidders upon application with security of \$10.00, said security to be refunded upon return of plans. All plans and specifications to be returned to the Board of Trustees in five days from date mailed. Trustees reserve the right to reject any and all bids.

THOMAS K. GRIFFITH,  
Corresponding Secretary.

(Continued on page 21)

**FREE HELP WANTED ADVERTISEMENTS****POSITION WANTED.**

Engineer, age 33, married, associate member American Society of Civil Engineers wishes to locate in Minneapolis; 10 years' experience in construction; last five years estimating, designing and superintending building work, reinforced concrete and other classes; percentage basis preferred; address XYZ, Improvement Bulletin.

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**ESTIMATOR AND SALESMAN WANTED.**

Wanted—Estimator and Salesman by large firm manufacturing and dealing in interior marbles, tiles and banking room fixtures. Position requires accuracy and ability to read drawings. Applicants having contracting experience

and acquaintance with Northwestern trade preferred. State age, experience and salary expected. Box 25, Improvement Bulletin.

Position wanted with Minneapolis or St. Paul general contractor. Employed as estimator at present. Graduate civil engineer. Can furnish good

reference. G. E. Peterson, 4106 N. 18th st., Omaha, Neb.

Wanted—Permanent position. Architectural draftsman and superintendent. Eleven years' experience. Clean habits. Ability to manage office.

F. A. HARRIS,  
836 Penn av.,  
Des Moines, Iowa.

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## PROPOSAL ADVERTISING FOR BIDS

### NOTICE TO CONTRACTORS.

Power House, Coon Rapids, Hennepin County, Minn.

Bids will be received until March 12 for building powerhouse of the Northern Mississippi River Power Co. at Coon Rapids. Plans and specifications may be secured by calling at the office of the Minneapolis General Electric Co., Minneapolis. A deposit of \$10 will be required from all bidders wishing to take out these plans and specifications, which amount will be refunded when same are returned.

NORTHERN MISSISSIPPI RIVER  
POWER CO.

### NOTICE TO CONTRACTORS. Church.

Ridgeway, Iowa.

The undersigned hereby gives notice of the sealed proposals for the erection of a brick church, to be built two miles south of Ridgeway, Iowa, for the Norwegian Lutheran Congregation. Bids are to be opened by the Secretary of the Building Committee on the thirtieth day of March, 1914, at 1:30 P. M., on the building site, two miles south of Ridgeway, Iowa. All bids must be in strict accordance with the plans and specifications prepared by J. E. Nason, No. 622 Corn Exchange, Minneapolis, Minn. After March 1st, 1914, the plans may be seen at the Winneshiek County Bank, Ridgeway, Iowa, and also at the Winneshiek County Bank, Decorah, Iowa; likewise at the office of the architect. A certified check of \$300.00, payable to Rev. D. C. Jordahl, Secretary, must accompany each bid as a guarantee to enter into contract and furnish a satisfactory bond for the faithful performance of the contract.

All bids should be addressed to the Secretary, Ridgeway, Iowa.

The right is reserved to reject any or all bids.

### NOTICE OF ADVERTISEMENT FOR BIDS FOR LABOR AND MATERIALS REQUIRED IN THE CONSTRUCTION OF AN ELECTRIC LIGHTING SYSTEM FOR THE VILLAGE OF LISMORE, MINNESOTA.

Notice is hereby given that until 6 p. m. on the 18th day of March, 1914, bids for labor and materials required in the construction of an electric lighting system for the Village of Lismore, Minnesota, will be received according to the plans and specifications which are on file in the office of Mr. Ned Smith, Village Recorder, Lismore, Minnesota, and also in the office of Earle D. Jackson, Consulting Engineer, St. Paul, Minnesota, and may be there examined and seen.

The work is divided into two parts: Part I, consisting of a cement block building, and Part II, consisting of furnishing and erecting an oil engine, generator, storage battery, switchboard, pole line, etc. Bids will be received on complete parts only.

Bids must be made out on the bidding blanks furnished by the consulting engineer for this purpose, and must be accompanied by a certified check for 5 per cent of the contract price, as a guarantee that the bidder will enter into a contract and perform the work in case the contract is awarded to him. In addition, the successful contractor must give a bond for the carrying out of the work on award of contract, for the full amount thereof, to run for one year from date of acceptance of work.

The sum of \$2.00 (to cover cost of

printing and mailing) must accompany applications for copies of plans and specifications, and the latter must be returned with bid, otherwise no bid will be considered. The consulting engineer reserves the right to make any minor changes in the plans or specifications before award of contract.

Address bids to Mr. Ned Smith, Village Recorder, Lismore, Minnesota.

The right is reserved to reject any or all bids.

Village of Lismore, Minnesota,  
MR. NED SMITH,  
Village Recorder,  
Lismore, Minnesota.  
Dated February 11th, 1914.

### BIDS FOR STEAM ENGINES AND ELECTRICAL EQUIPMENT. Willmar, Minnesota.

Sealed bids will be received by the City Council of the City of Willmar, Minnesota, up to eight o'clock p. m., of March 9th, 1914, for the following engines and electrical equipment:

One steam engine of approximately 175 H. P.

One steam engine of approximately 125 H. P.

Both to be equipped with all appurtenances.

One 150 K. V. A. electric generator.

One 100 K. V. A. electric generator.

One exciter of at least 9 K. W.

One exciter of at least 12 K. W.

One six panel switchboard.

All to be equipped with all appurtenances.

Specifications and plan of switchboard may be seen at the office of the City Clerk of the City of Willmar, or at the office of Joseph W. Rosche, Consulting Engineer, 820 Plymouth Building, Minneapolis, Minn.

A certified check for the sum of ten per cent (10 per cent) of the amount of the bid, payable to City of Willmar, must accompany each bid, which check will be forfeited if bid is accepted and bidder fails to enter into contract. The successful bidder must furnish bond in the full amount of contract price.

All bids must be sealed and addressed to the City Council, and must be endorsed, "Bid for Engines," or "Bid for Electrical Equipment," or "Bid for Engines and Electrical Equipment."

The Council reserves the right to reject any and all bids.

Dated February 18th, 1914.

HANS GUNDERSON,  
City Clerk.

### PROPOSAL FOR WATER WORKS SYSTEM.

For the Village of Excelsior, Hennepin County, Minnesota.

Readvertised.

Excelsior, Minn.

Sealed proposals will be received until 8 p. m., Monday, March 9, 1914, at the office of the village Recorder, Mr. Harry E. Wistrand, and opened immediately thereafter. Plans and specifications are on file and can be seen at the office of Harry B. Wistrand, Village Recorder, Excelsior, Hennepin County, Minn., and at the office of J. F. Druar, Oscar Claussen Engineering Co., 312-316 Commercial Bldg., St. Paul, Minn. Or additional copies may be had from the engineer at \$4.00 per set, to cover cost of reproduction of same. Plans and specifications are the property of Village of Excelsior, Hennepin County, Minn., and must be returned at the letting, together with the bids, or bids will not be considered. The work is to

consist of Div. No. 1, distribution pipe line and accessories; approximately 2,000 feet 6-inch and 8-inch cast iron bell and spigot water main, and of 800 feet 6-inch universal four lug pipe or National coated pipe, together with the necessary valves and hydrants and also a per foot price on about 10,000 feet of 4-, 6- and 8-inch cast iron B. & S. water main laid complete, together with price on valves, hydrants, specials, etc., to complete the entire village installations. Contractors may, if they desire, furnish figures on this division with or without including lake section.

Div. No. 2, being the furnishing and installation complete of a 75,000-gallon semi-spherical tank, on a 90-foot steel tower, or Div. No. 2A, 75,000-gallon elliptical steel tank on a 90-foot steel tower.

Div. No. 3, being the furnishing and installation complete of a 200-gallon triplex power pump, direct connected to a 20-h. p., 3-phase, 220 volt motor, to be furnished and installed complete with all accessories.

Div. No. 4, being the pumping station, retaining walls, stairs and accessories to be installed complete ready for continuous use and successful occupation. All of the above is to be furnished and installed complete in accordance with plans and specifications. A certified check in the amount of \$800.00 must accompany the proposal for the entire four divisions. One or more divisions shall be accompanied by a check of \$200.00 for each division bid upon. These checks are to be made payable unconditionally to Harry B. Wistrand, Village Recorder, as a guarantee of good faith on the part of the contractor if he will enter into a contract for the price bid if his proposal is accepted.

The village of Excelsior, Hennepin county, Minn., through its officers, reserves the right to reject any or all bids.

H. A. MORSE, President of Village Council.

HARRY B. WISTRAND, Village Recorder.

### DRAUGHTSMAN WANTED.

An experienced draughtsman for general architectural designing, detailing and tracing, with or without a helper, on Church, School, Opera, Business and Residence work, etc. Married man preferred. Must be of good habits; a pusher and steady worker. State experience, how educated with full history of all the past time employed; where, for whom, and wages received; also, what wages expected. Send photograph, sample of tracing and lettering, with full particulars, and when ready to start work with your application.

I have a steady job the year round for the party able to fill the position at a reasonable rate of compensation. Write at once—Position open now. About 180 miles S. W. of Minneapolis. Address "Position Wanted" care of Improvement Bulletin, Minneapolis, Minn.

## Want Ads Special Notices

### POSITION WANTED.

As carpenter foreman. Am prepared to handle any class of building work; can manage men; understand plans and know material; will go in the country if desired; good recommendation. Care M. 14, Improvement Bulletin.



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## STREET AND ROAD WORK

*Notes Arranged Alphabetically by States.*

**Alta., Edmonton**—The city council approved the expenditure of \$2,164,196 for sewer extensions and \$1,125,330 for water extension; \$731,245 will be spent on permanent paving and \$114,775 for concrete walks, plank walks call for \$87,308, grading \$44,117.

**Iowa, Boone**—The council has finally adopted a resolution for paving on Greene, 6th, Marshall, 4th, Benton, Crawford, Carroll, 8th, 12th, Tama, W. 2d, Monona and 7th sts.

**Iowa, Chariton**—City council has ordered about two miles of paving, and as soon as arrangements can be made bids will be asked for; address city clerk.

**Iowa, Corning**—A resolution of necessity has been passed for the grading, curbing, guttering and paving of districts from 1 to 20 inclusive. W. C. Chubb, city clerk.

**Iowa, Marion**—A resolution of intention provides for the curbing and guttering of certain streets; also for paving of certain streets with either No. 1 vitrified brick, concrete, sheet asphalt, asphaltic concrete, creosote wood blocks, bitulithic, Dolarway or tarvia. These will both come up for hearing March 2. P. O. Clark, city clerk.

**Minn., Alexandria**—The Douglas County Automobile club proposes to organize a stock company and buy the latest and best road machinery on the market, to include a tractor, graders, dump carts, loader, scarifier, drags and scrapers, the estimated cost of which is \$7,000 or more.

**Minn., Breckenridge**—Wilkin county will spend \$14,000 on its state roads this year on five highways; the state highway commission will furnish an engineer to take charge of the work.

**Minn., Buhl**—The streets of this village will be paved this year with crushed rock and cement, work starting in the early spring; address the village clerk.

**Minn., Duluth**—The city council has ordered the paving of three miles on Woodland av., the material to be determined upon later, and the cost will be from \$70,000 to \$90,000; C. S. Palmer, clerk of the public works commission.

**Minn., Duluth**—The West Duluth Commercial Club are backing Commissioner Murchison in the paving of Oneota st.

**Minn., Duluth**—Roderick Murchison, head of the commission of public works, has definitely determined on certain improvements to be taken up this year, this will comprehend the repaving of Superior st. between 15th and 25th av. W., and paving of W. Superior st., Jenswold and Oneota sts., between 25th and 46th avs. W., will have the bulge on all other jobs in prospect. The cost of the work from 25th to 46th avs., with various materials will be: concrete, \$151,440.90; brick, \$197,979.15; Creosote blocks, \$226,400.40. The paving of Vernon st. is another job sure to be done this year. Following is the cost: creosote blocks, \$24,448.82; brick \$24,022.02; concrete \$16,852.55. The paving of perhaps a mile on Woodland av. will also be taken up.

**Minn., East Grand Forks**—J. J. Smith, city engineer, has been instructed by the council to prepare plans and specifications for 40,000 square yards of paving; address city clerk.

**Minn., Minneapolis**—Tentative plans for the appropriation of \$175,000 out of the road and bridge fund of Hennepin county have been approved by the committee and will be presented to the board for ratification, and are as follows: Eden Prairie, \$9,000; Minnetonka boul., \$10,000; Middle road, gravel, \$6,500; Excelsior, \$30,000; Crystal Lake, \$20,000; Cedar av., \$20,000; Watertown, \$6,000; Delano and Long Lake, \$3,000; Wayzata and Long Lake, \$3,500; Minnetonka Beach, \$5,000; Mound to St. Bonifacius, \$3,000; Broadway, \$6,000; Territorial road, \$15,000; Superior blvd., \$34,000; Al. P. Erickson, county auditor.

**Minn., Owatonna**—Hearing March 11 on state rural highway No. 44, in Steele county; M. J. Parcher, auditor of Steele county.

**Minn., Rochester**—Plans are being drawn for the paving of a thoroughfare in Oakwood cemetery this season, to be of cement concrete; address city clerk.

**Minn., Superior**—It is expected that the city commissioners will order paving of Cumming av. soon; material not decided upon, but probably asphalt; address city clerk.

**Mont., Bozeman**—City council has created special paving district for paving about nine blocks in the residence district. A. M. Bradenburg, city clerk.

**Mont., Great Falls**—Preliminary resolutions have been adopted for grading and boulevarding on Central av., 1st av. S., and 15th st., at a total cost of over \$12,000; address city clerk.

**Mont., Great Falls**—Hearing by the city council on March 9, on grading and boulevarding 9th st., etc., estimated to cost \$2,800; W. H. Harrison, city clerk.

**Mont., Harlowtown**—The Gerharz-Jaqueth Engineering Co., Billings, have been secured to design and have charge of a

large sidewalk improvement district.

**Mont., Helena**—City Engineer Jordan recommends that Helena av. be paved with bitulithic paving, the cost of which is estimated at \$1.85 per square yard, or a total of \$60,000, from Main st. to Roberts st. Address city clerk.

**N. D., Bismarck**—The county surveyor has been directed to prepare plans and specifications for the proposed highway to be built east of the Burleigh county line and north from Bismarck to Wilton; bids will be called for later; T. E. Flaherty, auditor of Burleigh county.

**N. D., Bismarck**—Bidders for culverts were as follows: Northwestern Sheet and Iron Works of Wahpeton, N. D.; North Dakota Metal Culvert Co., of Fargo, N. D.; The Berger Manufacturing Co., of Minneapolis, Minn.; The Hennepin Bridge Co., of Minneapolis, Minn.; Minneapolis Steel & Machinery Co., of Minneapolis, Minn.; Marshall-Wells Hardware Co., of Duluth, Minn.; Klauer Manufacturing Co., of Dubuque, Iowa; Gilbert Manufacturing Co., of Aberdeen, S. D. The matter will be further considered March 5. T. E. Flaherty, Bismarck, auditor of Burleigh county.

**N. D., Grand Forks**—Contract with Halvor Horkelson for work to be done on state road No. 3, grading and other improvements at \$1,700.

**Sask., Regina**—Announcement is made that the city council will authorize 12 miles of pavement and 33 miles of concrete sidewalk.

**Sask., Swift Current**—The Provincial government is to build a land titles office here this year, and the Dominion government will build a central telephone exchange, court house, armory and postoffice, the appropriations having been made for all of them.

**S. D., Mitchell**—Contract has been let to the Pioneer Bridge Co. and H. J. Parrett, city, for grading and improving roads.

**S. D., Watertown**—The city council has ordered a large amount of paving to be of asphaltic cement concrete, Portland cement concrete, creosote blocks or vitrified brick. O. M.

**Wash., Montesano**—The total amount of money which may be spent on county roads this year is approximately \$450,000; of this amount, there is already contracted or plans drawn ready to contract for work to the amount of \$258,963; the balance is yet to be definitely placed; Henry Shorey, county engineer.

**Wis., Delavan**—The streets and alleys committee have been instructed to advertise for bids for curbs and gutters on Washington and other streets; W. R. Topping, city clerk.

**Wis., Milwaukee**—Plans are being formulated for a concrete highway from here to Oconomowoc to cost \$750,000.

**\*Wis., Neenah**—The city engineers of Neenah and Menasha have been directed to make cost estimates for the full width paving and for center parking, contemplating the use of either brick, concrete, or creosote blocks for the paving of Nicolet av. from 1st to 3d sts., this street being the dividing line between the two cities. Address city clerk.

**Wis., Oshkosh**—Preliminary steps have been taken for paving on nine streets and avenues, a variety of materials being named from which selection will be made; bids will be advertised for as soon as the board of public works has prepared plans and specifications; address city clerk.

**Wis., Racine**—Thurston av. has been ordered paved by the city council; address city clerk.

**Wis., Wausau**—Five blocks of paving, probably tar macadam, are contemplated for the spring; B. C. Gowan, city engineer.

### BIDS WANTED.

**Iowa, Bettendorf**—Bids received by the village clerk until 7 p. m., March 7, for 722 lineal feet of concrete paving and 3,044 feet of brick paving.

**Iowa, Bettendorf**—Bids received by H. F. Abramson, town clerk, for the grading, excavating, curbing and paving with one course of vitrified brick on a 5-inch Portland cement foundation on State st., etc., being about 4,472 cubic yards of excavation and about 6,055 and 8-10 lineal feet of 18-inch concrete curb and about 24 lineal feet of wood curb, and about 8,716 square yards of brick paving; check for \$900; also, at same time, for the grading, paving, excavating, curbing and paving with one course of Portland cement concrete paving six inches thick on State st., being about 677 cubic yards of excavation and about 1,424 lineal feet of 18-inch concrete curb and about 92 lineal feet of wood curb and about 2,636 square yards of concrete paving; check for \$200.

**Iowa, Davenport**—Bids received by J. W. Crowley, chairman board of public works, until 2 p. m., March 3, for curbing and excavating and paving on Harrison st., etc., requiring about 2,638 lineal feet of curb and guttering, 2,963 cubic yards excavation, and about 4,134 square yards of asphalt paving, including the proper foundation; check for \$100; also at same time, for re-paving with asphaltic concrete on present macadam foundation of McClellan boulevard, etc., requiring about 242 cubic yards of excavation and about 4,361 square yards asphaltic concrete paving, including the surfacing of the proper foundation therefor; check for \$100.


**Iowa, Le Mars**—Bids will be taken in March for about 10-





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**HEBRON FIRE & PRESSED BRICK CO.** HEBRON, NO. DAK.



000 square yards concrete paving; K. C. Gaynor, consulting engineer, Sioux City, Iowa.

**Kan., McPherson**—Bids received by H. A. Rowland, city engineer, until March 23, for about 35,000 square yards of asphaltic concrete pavement on 4-inch concrete foundation and 15,000 feet concrete curb, to cost about \$75,000.

**Mont., Bozeman**—Bids received by A. M. Brandenburg, city clerk, until 5 p. m., March 5, for the construction of concrete curbs and walk as ordered during 1914. There will be approximately 1,500 linear feet of 5x18 inch curb, 200 linear feet of 6x22 inch curb, 20 corner returns or segments, 1 linear foot of combined curb and gutter, 30,000 square feet of 5-foot sidewalk, 3,000 square feet of crosswalks, 100 square feet of driveways, 1 linear foot of gravel drain, 1 linear foot of 3-inch tile drain, 1,000 feet BM of lumber for forms left in place, 200 cubic yards of extra excavation, and 1 cubic yard of gravel fill.

**Mont., Great Falls**—Bids received by W. H. Harrison, city clerk, until 8 p. m., March 2, for grading on Central av.; also for grading on 1st av.; also, for construction of a standard boulevard on 1st av.; check in each case for 10 per cent.

**N. D., Mohall**—Bids received by Peter Carlson, auditor of Renville county, until 2 p. m., March 3, for building road, fill and approaches to bridges; check for 5 per cent.

**S. D., Watertown**—Bids will be received early in March by O. M. Lane, city auditor, for about 31,000 square yards asphaltic concrete pavement, 10,405 feet of curb and 9,872 feet of concrete gutter, costing about \$70,000; F. W. Schreiber, city engineer.

**Wis., Fond du Lac**—Bids received by J. S. McCullough, chairman of the board of local improvements, until 3 p. m., March 17, for paving with reinforced concrete on S. Park av.

**Wis., Lake Geneva**—Bids received by city clerk, until 4 p. m., March 10, for grading, constructing creosoted block pavement and improving portions of Main st.; Frank Augesky, chairman of the board of public works.

**Wis., Milwaukee**—The commissioner of public works will take bids in March for paving on 15 streets, amounting to \$80,000.

#### CONTRACTS AWARDED.

**Iowa, Wapello**—Contract has been made with Robert Garrett for road work in Wapello township at 50c an hour for actual work on the road.

**Minn., Aitkin**—Contract with Small & Matteson, city, for state rural highway No. 10, at \$48,644; including bridges, grading, turnpiking, concrete culverts, etc.

**Minn., Bemidji**—Contracts have been made on state rural highway as follows: section A, Rood Construction Co., Grand Rapids, Wis., \$6,800; section B, Tom Smart, Bemidji, \$5,297; section D, Nels Johnson, Kelliher, \$11,712; section F, John Moberg, Bemidji, \$21,034; section G, Tom Smart, Bemidji, \$5,547.

**Minn., Crookston**—Contract has been let to Halvor Torkelson, Mentor, Minn., for certain roadwork at \$1,686, and for other roadwork recently advertised, to Christ Johnson, Foster, Minn., at \$1,056; H. J. Welte, county auditor.

**Neb., Omaha**—Contracts have been let by the trustees of Dundee to pave the west half of 48th st., from Farnam to Underwood av., the city of Omaha paving the east half, and the whole being done by Hugh Murphy at \$1.84 a yard. This covers 8 blocks; contracts are made also to pave the new part of Happy Hollow, between Dodge road and Chicago st. and 52d and the boulevard about 7 blocks; also the 3 blocks between Cuming and Nicholas; the 2 blocks on Cuming, between 48th and 50th; also a continuation on 49th from Bert to Cuming, 1 block; also 49th av. from Cuming to Izard. All these will be asphalt, and outside of the Murphy contract go at \$2 a yard to the National Roofing Co., which has done a deal of asphalt laying in Dundee.

## NEW FIRMS INCORPORATED

*Notes Arranged Alphabetically by States.*

**Iowa, Dougherty**—Dougherty Co-operative Creamery Co., \$10,000; Thos. McManus.

**Iowa, Glenwood**—Glenwood Armory Co., \$15,000; J. W. Carter.

**Iowa, Mason City**—American Brick & Tile Co., A. H. Gale, president, \$25,000.

**Iowa, Mason City**—Clark Electrical Co., capital \$5,000; E. J. Clark.

**Minn., Minneapolis**—H. & B. Theater Co., \$25,000; C. H. Htichcock.

**Minn., Minneapolis**—Dawson Motor Corporation, W. T. Dawson, to do business in South Dakota.

**Minn., Minneapolis**—John L. Strong and others have incorporated the Strong & Smith Manufacturing Co., 611 Plymouth building, capital \$50,000.

## DRAINAGE AND IRRIGATION

*Notes Arranged Alphabetically by States.*

**Iowa, Ft. Dodge**—Report filed by engineer, G. P. Smith, recommending new plan for district 80; Engineer Snook recommended establishment of district 170; also 175 and 183; contract of Anderson & Co., drain 151, extended to July 1.

**Iowa, Ft. Dodge**—Work on ditches costing \$150,000 will be started this spring, in Wenster county; five districts reported on engineers completing surveys on 13 more.

**Iowa, Sac City**—Engineer W. D. Maxwell has reported on formation of drainage district asked for by J. T. Dallison and hearing will be held March 5, same engineer's report on district asked for by T. J. Andre will be heard same day, Wilbur Neill, county auditor.

**Iowa, Sidney**—Hearing held March 5, on ditch proposed by C. Atwood estate and others; F. B. Jenkins, auditor, Fremont county.

**Minn., Aitkin**—H. D. Keath, county surveyor, has been making preliminary survey of large drainage system proposed for townships of Clark, Salo, Spalding, McGregor and Jevene, will be known as No. 26.

**Minn., Sherburn**—Final orders establishing judicial ditches 31, 32 and 33 have been filed by Judge Quinn; ditch 32, is in Elm Creek township; C. W. Gove, engineer, estimated cost \$8,767.

**Neb., Blair**—Engineer Pratt, Tekamah, and others plan a drainage district Dekatur to Blair, Wm. Istigg, John Canfield and others interested.

**Neb., Omaha**—Work will started in April on canals and power house Platte River Hydro-Electric Power Co., to supply Omaha; estimated cost over \$2,000,000; contract awarded to Kilpatrick Construction Co., Beatrice, Neb.

**S. D., Beresford**—County boards of Yankton and Clay will meet to consider engineer's report on ditch from Gayville to Vermillion river.

**S. D., Rapids City**—Frank Fahrenwold Co., this city, will have capital stock \$25,000, incorporated; Frank Fahrenwold Sr. and Jr., Arthur and Edith Fahrenwold all of Rapid City, S. D.

#### BIDS WANTED.

**Iowa, Council Bluffs**—Bids received until 2 p. m., March 26, on Fensler ditch Rockford township; J. B. Hannan, auditor, of Pottawattamie county.

**Iowa, Muscatine**—New bids will be taken on constructing pumping plant in drainage district 13, for which it was announced that contract would be awarded to a Chicago firm; James H. Selven, Muscatine, advanced the claim that his bid on part of construction work was lower than that of the Chicago firm and joint board thought better contract price might be got.

**Iowa, Rockwell City**—Bids received until 1 p. m., March 3, on improvements drain 185, Lincoln township; bids for clay and cement tile, J. P. Moore, engineer, C. O. Dickson, county auditor; bids received same time and place on improvements drain 187.

**Iowa, Sidney**—County board will receive bids until Feb. 26, noon, for drainage district 17, tile from 6 to 10-inches, V. A. Burley, auditor, Osceola county.

**Iowa, Sioux City**—Bids received until noon March 3, for constructing Sand Hill ditch, plans on file county auditor, E. E. Hausmoer, Sioux City.

#### CONTRACTS AWARDED.

**Iowa, Clarinda**—Contract awarded to O. P. Herrick, Des Moines, for 12½ miles county drainage work.

**Kans., Whiting**—Contract awarded for open ditches and earth levee to R. S. Morrow, Council Bluffs, Iowa, at 9.29 on open ditch, 14c on levee; Pollard & Campbell, Omaha, 10c open ditch, 18c levee; Pueblo Bridge Co., Pueblo, Colo., 11.69c and 18c; J. L. Mullen, Omaha, 11.93c and 11.93c; Minnreisc Construction Co., Kansas City, 10.95c and 15c; S. Dolman & Son, Topeka, 17c each; open ditch 129,500 cubic yards, levee 5,500; engineer H. B. Walker, Manhattan, Kans.

**Minn., Aitkin**—Contract awarded for county ditch 24, to Northern Construction Co., Elkhart, Ind., at \$36,180; other bids, B. A. Foley & Co., Aitkin, \$40,910; J. E. Stewart, Aitkin, \$41,310; W. J. Gleason & Co., Aitkin, \$42,625; Engineer's costs, estimated 10c, successful bid at 8c; afterwards announced E. O. Forswick served injunction on county board restraining them from proceeding with work and hearing was held at Brainerd.

**Minn., Bemidji**—Contract for excavation on judicial ditch 20 awarded to H. E. Brown, Litchfield, Minn., \$20,387; cleaning and grubbing, Konig & Rundberg, Washkish, Minn., \$2,945; J. L. George, county auditor.

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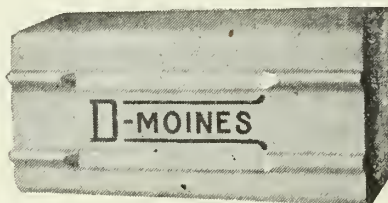
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## SEWERS

*Notes Arranged Alphabetically by States.*

**Iowa, Burlington**—Hearing by the city council Mar. 16, on the construction of a 9-foot reinforced concrete arch, combined sanitary and storm water main trunk sewer, with the necessary catch basins, manholes, lamp holes and connections, the same being an extension of the present westerly branch of Hawkeye sewer, south of Agency st.; Robert Kroppach, city clerk.

**Iowa, Davenport**—Hearing March 4, for lateral sewers in sub-district No. 58, in main district No. 12, estimated to cost about \$8,379; Hugo Moeller, city clerk.

**Iowa, Grinnell**—The state board of health, Lafayette Higgins, civil and sanitary engineer, has approved plans for a sewer system to cost \$125,000.

**Iowa, Sac City**—Petitions are before the city council for the extension of sewers on 10th st. and also on Hobbs st.; address city clerk.

**Iowa, Sheffield**—An election will be held March 6, to vote on bonds for sewer system; address city clerk.

**Iowa, Tipton**—All objections to the proposed sewer work were overruled by the council.

**Minn., Nett Lake**—The installation of a sewer system is being discussed; address village clerk.

**Mont., Kalispell**—Hearing March 2, for a sanitary sewer in the alley between 4th and 5th avs., estimated to cost \$1,420; C. J. McAllister, city clerk.

**Sask., Regina**—A new pumping station for sewage will be erected this summer for Riverside and property along the creek.

**Sask., Regina**—For the extension of disposal works and the construction of sewer connections throughout the city the sum of \$82,000 is to be expended.

**Wis., Beloit**—The board of public works has been instructed to take the proper steps for a sanitary sewer on Locust st.; address the city clerk.

## BIDS WANTED.

**Iowa, Davenport**—Bids received by J. W. Crowley, commissioner of board of public works, until 2 p. m., March 3, for a sewer on Park av. requiring, 418 lineal feet of 8-inch pipe and one manhole; check for \$100.

**Iowa, Davenport**—Bids received by J. W. Crowley, commissioner of the board of public works, until 2 p. m., March 3, for sewer work on Rohlf st., etc., requiring the following material: 1,640 feet of 6-inch pipe; 7,703 feet of 8-inch pipe; 2,105 feet of 10-inch pipe; 1,928 feet of 12-inch pipe; 120 feet of 15-inch pipe; 47 6x6 Y's; 268, 6x8 Y's; 59 6x10 Y's; 45 6x12 Y's; 4 6x15 Y's; 33 manholes; 12 lampholes; check for \$1,000. Also, at the same time, for a sewer on Oxford av., requiring 418 lineal feet of 8-inch pipe and one manhole; check for \$100.

**Mont., Anaconda**—Bids received by M. J. Kelly, city clerk, until 8 p. m., March 2, for a sewer in special improvement district No. 56; check for 10 per cent; also, at the same time, for a sewer in special improvement district No. 57; check for 10 per cent.

**Neb., Omaha**—Bids received by King & Rohrbaugh, engineers, 316 McCague building, Omaha, about April 1, for extending outlet of 18-inch sewer, 8,000 feet and putting in sewage purification works at Dundee; cost about \$18,000; E. R. Hume, clerk, 904 N. 49th st.

**S. D., Yankton**—Bids received by Julius Engel, auditor of Yankton county, until 2 p. m., March 3, for corrugated metal pipe culverts that may be required for the ensuing year; check for \$100.

**Wis., Chippewa Falls**—Bids will be asked for about March 1, on about four blocks of 18 to 24-inch pipe sewer on the south side of Main st.; about 2,100 feet, to cost \$9,000; A. T. Thompson, city engineer.

**Wis., Menomonie**—Bids will soon be received by F. H. Rowe, city clerk, for one mile of 8 to 36-inch vitrified pipe and one-half mile of brick sewer; A. R. Garnock, engineer, city building, Eau Claire, Wis.

## CONTRACTS AWARDED.

**Iowa, Davenport**—Contract has been let to the Hydraulic Concrete Co., city, for a 10-inch sewer pipe at \$807, the only other bidder being the D. E. Keeler Co. at \$945.

**Iowa, Kingsley**—Contract has been made with Arthur A. Dobson, Lincoln, Neb., for a sanitary sewer and disposal plant, the entire system to be completed by July 1.

**Wis., Beloit**—Contract has been let to William McGavock for 2,000 feet of 6-inch vitrified sanitary pipe sewers in va-

## BRIDGES

*Notes Arranged Alphabetically by States.*

**Iowa, Davenport**—Supervisors awarded contract for twisted steel bars to be used for bridge construction in county for the year to Clinton Bridge Works.

**Iowa, Des Moines**—N. M. Stark Bridge Co. awarded contracts for 61 bridges in Polk county at \$101,000.

**Iowa, Sheldon**—Supervisors of Buena Vista county will construct their own bridges this year, a bridge man has been engaged to superintend the construction of larger bridges and county engineer will supervise work.

**Iowa, Tipton**—Board of supervisors of Cedar county resolved to construct 23 steel and reinforced concrete bridges. Hearing March 3. T. C. Moffit, county auditor.

**Minn., Northfield**—A vote will be taken on issuing bridge bonds for \$10,000; election March 10; C. E. Hoppin, city recorder.

**Minn., Winona**—City contemplates issuing bonds for \$100,000 to rebuild Wisconsin approach to High bridge; W. A. Hodgins, president.

**Mont., Great Falls**—The Milwaukee railroad has received several cars of steel for the Missouri river crossing but the bridge will not be built until April 1.

**Mont., Great Falls**—County commissioners will open bids March 2, for construction of an approach to the new New Ulm bridge.

**N. D., Hamilton**—County commissioners have employed Jay W. Bliss, state engineer, to prepare plans and specifications for all bridges to be built in county for the year.

**N. D., Portland**—Work has been resumed on the Great Northern steel bridge which is being constructed over Goose river.

**Wis., Green Bay**—Greiling Bros. were low bidders for Mason st. bridge, at \$153,312.

## BIDS WANTED.

**Iowa, Audubon**—Bids received by Otto Witthauer, county auditor, 12 m., March 2, for construction of 22 concrete bridges and culverts. Check for 5 per cent.

**Iowa, Cedar Rapids**—Bids received 10 a. m., March 9, for erection of a reinforced concrete bridge over Cedar River on the site and to replace the present B av. bridge and for the removal of the present steel bridge; check for \$5,000; L. J. Storey, city clerk.

**Iowa, Estherville**—Emmett county board of supervisors will receive bids March 5 for a bridge over Des Moines river; each bidder must furnish own plans; cost not to exceed \$15,000.

**Iowa, Gardner**—Bids received by W. L. Fitkin, county auditor, 1 p. m., March 11, for construction of 8 reinforced concrete bridges; check for 5 per cent.

**Iowa, Knoxville**—Bids received by J. D. Schlotterback, 1:15 p. m., March 10, for erection of a 20-foot I-beam bridge on reinforced concrete abutments; check for 10 per cent.

**Iowa, Marshalltown**—Bids received by A. W. Welker, county auditor, 9 a. m., March 4, for construction of a bridge in

**Iowa, Mason City**—County board resolved that following bridges be constructed, one on Stewart av. crossing, one on Mendota drive over Lime creek and one at Iowa City; cost \$11,690; moving steel bridge from Stewart av. and placing same on new abutments; cost \$1,900.

**Minn., Foley**—Bids received by J. E. Kasner, county auditor, 10 a. m., March 12, for construction of state bridge No. 299, in town of Minden, 60-foot span, 18-foot roadway, concrete floor, cement foundation; plans at office of state highway commission, St. Paul or at office of county auditor; check for 5 per cent. Bids will be taken at same time for state bridge No. 1193 on state road No. 2, in town of Langola, over Little Rock creek, 18-foot roadway, 60-foot span, concrete floor, cement foundation resting on piles. Bids will be received for the sub and superstructure separately or combined.

**Neb., Beaver City**—Bids for county bridges were not opened but postponed until March 26th. J. T. Minden, county clerk.

**Neb., Fairbury**—Bids received by C. H. Shaffer, county clerk, 12 m., March 1 for the construction and erection of superstructure the substructure and approaches of all bridges and for all material for same to be built in Jefferson county in 1914.

**Neb., Gordon**—Bids received by H. F. Wasmund, county clerk, 12 m., March 20, for construction of all bridges in county for the ensuing year; check for \$500.

**Neb., Ord**—Bids received by Otto Murschel, county clerk, 5 p. m., March 17, for construction of all bridges in county for the ensuing year; check for \$1,000.

**N. D., Mohall**—Bids received by Peter Carlson, county auditor, 2 p. m., March 24, for construction of a steel bridge across Mouse River. Check for 5 per cent.

**N. D., Mohall**—Bids received by Peter Carlson, county auditor, 2 p. m., March 3, for the building of road fill and approaches to bridges, one in sec. 1, twp. 159-84 and 36-160-84,





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**Wis., Appleton**—Bids received by W. W. DeLong, 2 p. m., Feb. 26, for erection of two re-inforced concrete bridges in town of Grand Chute; check for 5 per cent.

#### CONTRACTS AWARDED.

**Iowa, Dubuque**—Board of supervisors of Dubuque county resolved to construct five bridges and five culverts; Theo. Scharle, county auditor.

**Iowa, Mason City**—Contract for county bridges let to Wm. Hinkle, local contractor, for \$19,000.

**Minn., St. Cloud**—Contract let to Hennepin Bridge Co., Minneapolis, for a bridge over Sauk River at Melrose.

**Minn., St. Paul**—Contract awarded to Illinois Bridge Co. for two ornamental reinforced concrete bridges near Kohlman's lake.

**Neb., Nebraska City**—Contract let to Monarch Engineering Co., Falls City, for county bridges for the year.

**Wash., Chehalis**—Ambrose-Burdsall Co. of Portland, has contract to build steel bridge across river at Riverside, at \$13,481.

**Wash., Montesano**—Contract for new lift bridge to be built at South Bay was let in two parts, building of approaches and superstructures to Grays Harbor Construction Co.; the building of bridge itself, steel, to C. Haggerman & Co., Seattle.

**Wis., Washburn**—Contract for six steel bridges let to Hennepin Bridge Co., Minneapolis, at \$1,190. County will build the other five by day labor.

## ELECTRICAL

*Notes Arranged Alphabetically by States.*

**Alta., Calgary**—City commissioners recommend that a by-law for \$300,000, for electric light equipment be submitted to the people soon, for the equipping of the transforming and switching and control station at Victoria Park; also for underground cables for city lighting system.

**Iowa, Anamosa**—Business men will install electric lights on main business streets, ornamental system will be used.

**Iowa, Centerville**—Southern Iowa Traction Co., whose stock recently was purchased by the Centerville Light & Traction Co. will be made into an electric line, contracts have been let for all the equipment and poles for the trolley wires are being distributed.

**Iowa, Eddyville**—Oskaloosa Telephone Co. has taken over the interests of the Eddyville Co.

**Iowa, Estherville**—Council has engaged W. H. Grover, consulting engineer, Ames, Iowa, to prepare plans and estimates for construction of municipal electric light plant.

**Iowa, Glenwood**—It is planned to install another boiler and generator at the local electric light plant.

**Iowa, Grinnell**—T. L. Blank, civil engineer is making surveys for an interurban line from here to Belle Plaine.

**Iowa, Little Rock**—A vote will be taken March 16, on granting a franchise to Little Rock Electric Light Co.; J. D. Kruse, clerk.

**Iowa, Mason City**—Clark Electrical Co., incorporated with a capital of \$5,000; E. J. Clark, O. P. Strickler and M. T. White.

**Iowa, Mason City**—Election March 26, to vote on issuing bonds for \$50,000 for a municipal electric light plant; John Stanton, mayor.

**Iowa, Monona**—Mr. Donaldson of McGregor has started work on a transmission line to this place and the telephone system will be completed about May 1.

**Iowa, Moravia**—Council will vote on a franchise at the spring election for electric lights.

**Iowa, Muscatine**—Plans are being considered by Muscatine, North & South Railway Co. for equipping its railway from here to Burlington for electrical operation.

**Iowa, Muscatine**—Council will engage an engineer to make investigations and submit a report on cost of a lighting system of a municipal electric light plant.

**Iowa, Muscatine**—Iowa Telephone Co. will improve the local system at a cost of \$25,000.

**Iowa, Nevada**—Street lights will be installed on Oak st. and 4th av., write Mayor Fowler.

**Iowa, Oskaloosa**—Home Telephone Co. is preparing for installation of an underground conduit system.

**Iowa, Perry**—J. C. Young of the Iowa Railway & Light Co. is endeavoring to interest council and water board in a proposition to install electric pumps at the water works plant. Austin Howard, chairman, M. G. Lyon, local manager for water company.

**Iowa, Sioux Rapids**—K. C. Gaynor of Sioux City, owner of the light plants in Marcus, Iowa and Hartington, Neb., has

bought the plant here and will improve it and give an 18-hour service.

**Iowa, Williamsburg**—Council is considering granting an electric light franchise to Frank D. Gue.

**Man., Winnipeg**—Winnipeg Electric Railway Co. will begin at once to develop water power on Winnipeg at Great Bonnet Falls, which are capable of producing 150,000 h. p.; J. G. White & Co., New York, engineers, have been engaged to make surveys.

**Mich., Iron River**—Peninsular Power Co., will remodel its power plant here, build a brick power plant and install two units; cost \$80,000. The company will also install two new units at the Twin Falls plant.

**Minn., Ada**—Officers of the Norman County Telephone Co. have voted to improve the system.

**Minn., Bellingham**—An electric light plant will be established here by L. F. Clark.

**Minn., Duluth**—Western Mesaba Electric Co., incorporated, capital \$100,000; Frank Macormack and J. A. Hanks and M. J. McCormack.

**Minn., Duluth**—West End Commercial club, Mr. Anderson, chairman, have completed arrangements for a street lighting system.

**Minn., Elk River**—F. D. Waterman, an owner of Elk River water power, says his company will begin this spring to provide light and power for village, if arrangements can be made.

**Minn., Forest Lake**—C. E. Stewart is interested in establishing an electric light plant here.

**Minn., Good Thunder**—Commercial club, A. W. Seaquist, president, is back of a movement to install an electric light plant.

**Minn., Greenwald**—Spring Hill Rural Telephone Co. incorporated, capital \$10,000; J. J. Winter, Melrose, R. R. 3.

**Minn., Harmony**—Council considering bond issue for electric light system; ornamental lights will be installed on three blocks of Main st.

**Minn., Hartland**—An electric light plant will be built here; cost \$3,000.

**Minn., Henning**—Henning Telephone Co. incorporated, J. M. Cornish, president.

**Minn., Hibbing**—The white way lighting system will be extended; H. D. Haley, recorder.

**Minn., Hills**—Election held March 10, to vote on issuing bonds for \$8,000 for an electric light plant; H. A. Twange, city clerk.

**Minn., Janesville**—A movement is on foot to install cluster lights on Main st.

**Minn., Lewiston**—A vote will be taken at the regular spring election on bonding the town for a municipal light plant.

**Minn., Marshall**—Sodus Rural Telephone Co. has been organized with A. O. Killius as president, Hugh Edwards, vice president and D. E. Boyle secretary.

**Minn., Spooner**—Bord Co-operative Telephone Co. has been organized with Harold Royem as president and W. H. Steffes, secretary.

**Minn., Stewartville**—City council is considering buying the local light plant.

**Minn., St. Cloud**—Spring Hill Telephone Co. organized for a rural telephone system for the town of Greenwald; J. J. Winter, Peter Krantz of Spring Hill, John H. Emmel of Grove.

**Minn., St. Cloud**—The Union Power Co., of this city, will furnish electricity to Cokato, Dassel, Howard Lake and Eden Valley and the Power Distribution Co., of St. Paul, is installing the stations at these places and will run a connecting line to Cold Springs or Richmond.

**Minn., Verndale**—Globe Electric Co., of Milwaukee, Wis., have asked for a franchise to install electric lights.

**Minn., Verndale**—A new switchboard will be installed in the local exchange and other improvements will be made.

**Minn., Virginia**—The Mesaba Telephone Co., Fred E. Lister, Duluth, district manager, is having plans made for a 2-story brick exchange building, modern throughout.

**Minn., Warroad**—Warroad Telephone Co. are making plans to extend their line from Clementson to International Falls, work to begin in spring; Fox & Jewett, owners.

**Minn., Watertown**—Crescent Electric Co., incorporated; capital \$50,000; Guy E. Halgren and others.

**Mont., White Sulphur Springs**—Council is planning installation of ornamental street lights.

**Minn., Willmar**—Local electric light plant will be remodeled and latest equipment and machinery installed, estimated cost \$14,000; Hans Gunderson, city clerk.

**Minn., Winona**—Geo. Hirsh is chairman of a committee that will install ornamental electric lights here.

**Mont., Anaconda**—Reported that Great Northern will electrify their road between Butte and Great Falls, 171 miles. It is estimated that 75,000,000 pounds of copper will be required.

**Mont., Billings**—Business men have formed an organization



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**Mont., Lavina**—Commercial club appointed W. J. Phillips and G. H. Belcher a committee to investigate light plants, to get estimates on cost of one for this village.

**Mont., Miles City**—Bell Telephone Co. will erect an exchange building to cost \$80,000.

**Mont., Harlowton**—Meagher County Telephone Co. has sold its exchanges at this place and Judith Gap and the toll lines between to Wm. Burghardt of Fessenden, N. D. and Otto C. Schulz of Brodhead, Wis.

**Mont., New Germany**—An electric light system will be installed here and the New Germany Auto Co. will furnish the power.

**Wis., Deerfield**—A company has been organized with a capital of \$50,000, to furnish electricity to this place and vicinity. O. A. Oestrich and I. A. Avery.

**N. D., Balfour**—Owners of the flour mill here have been granted a franchise to install and operate an electric plant, to be completed May 1.

**Minn., Holdingford**—Holdingford Milling Co. made a proposition to install a light and power plant. Commercial club are pushing the project. Alex Lemmer is interested in having the local telephone system extended.

**N. D., Drake**—Commercial club contemplates building an electric line to Guthrie and Brush Lake.

**N. D., Hazen**—Independent Telephone Co. have purchased right-of-way through here for a long distance line and work will begin in spring.

**N. D., Portal**—C. C. Aller owner of the local electric light plant will form a stock company and sell electricity to Flaxton and Bowbells if arrangements can be made.

**S. D., Baltic**—N. C. Draper, Sioux Falls, has applied for a franchise for electric lights here.

**S. D., McIntosh**—McIntosh Electrical Co. incorporated; capital \$25,000; E. W. Luks and W. D. Snyder.

**S. D., Waubay**—John Hopkins of Pierpont bought an interest in the electric light plant here.

**Wis., Bayfield**—A 24-hour lighting service will be put in operation here within the next two months, the old plant will be remodeled and new machinery purchased; cost \$10,000. Mr. Herrick, superintendent.

**Wis., Madison**—Articles of incorporation of a proposed interurban line between here and Janesville have been filed under the name of Madison & Janesville Traction Co., Frank H. Weston, J. W. Peper of this city and others; work will begin in spring.

**Wis., Sheboygan**—Sheboygan Railway & Electric Co., Peter Riess, president, submitted a proposition to council to install an entirely new system of street lights.

#### BIDS WANTED.

**Iowa, Waverly**—Bids received March 3, 5 p. m., by F. A. Lee, city clerk, for construction of an iron and concrete foundation for a new electric generator to be installed at the electric light plant; check for \$200.

**\*Minn., Lismore**—Bids received by Ned Smith, village recorder, until 6 p. m., March 18, for an electric lighting system, including a cement block building and oil engine, generator, etc. Check for 5 per cent. Officially advertised in this issue of the Improvement Bulletin.

**Minn., Minneapolis**—Bids received by K. E. Alexander, 3 p. m., March 2, for 15 fire alarm boxes; check for \$50 payable to C. A. Bloomquist, city treasurer.

**Minn., Minneapolis**—Bids received by the Northern Mississippi River Power Co., care of the Minneapolis General Electric Co., city, until March 12, for building a power house; a deposit of \$10 for plans.

**\*Minn., Willmar**—Bids received by Hans Gunderson, city clerk, until 8 p. m., March 9, for two engines and electrical equipment. Check for 10 per cent. Officially advertised in this issue of the Improvement Bulletin.

**Mont., Great Falls**—Bids received 11 a. m., March 9, at office Rocky Mountain Fire Insurance Co. Tod building, for electric work to be installed in said building according to plans by architect Geo. H. Shanley; check for 5 per cent.

**Neb., Decatur**—Bids will be opened Feb. 27, for construction of an electric light system, as follows: one 15 k. w. 115-230 volt, 3 wire generator, switchboard, storage battery and all labor for installation, for pole line, 1,850 pounds No. 6 triple braid weatherproof copper wire, 500 pounds No. 4 triple braid weatherproof copper wire, 480 pounds No. 8 triple braid weatherproof copper wire, 140 cedar poles, necessary cross arms pins, guy wires, etc.; C. E. Barlow, village clerk; check for 5 per cent; Fairbanks-Morse & Co., Omaha, engineers.

#### CONTRACTS AWARDED.

**N. D., Balfour**—Council let contract to Schimel Bros. to install an electric light plant.

**Wis., Lowell**—Contract let to Lowell Electric Light & Power Co., to furnish electricity for lamps and motors in Lowell.

## PUBLIC BUILDINGS

*Notes Arranged Alphabetically by States.*

**Alta., Calgary**—A site has been purchased by the federal government on which to erect a large government office building to cost \$150,000.

**Alta., Medicine Hat**—Plans are being prepared and other steps taken for the erection of a shelter for neglected and delinquent children.

**Iowa, Glenwood**—A site is to be purchased at once and a modern brick armory erected, 60x80, 2-story, \$15,000. R. E. Humphrey, chairman of building committee.

**Iowa, Keosauqua**—Fire destroyed buildings at the county farm to the value of \$35,000; insurance, \$6,000; H. E. Duckworth, auditor of Van Buren county.

**Iowa, Mason City**—Fire damaged McFarland building about \$1,000.

**Iowa, Muscatine**—Election irregularities may cause Muscatine to wait at least a year for its new city hall.

**Kansas, Hutchinson**—A proposition will be voted on at the spring election for issuing bonds in the sum of \$15,000 or \$20,000 for a site for a central fire station, municipal hall, etc. Address city clerk.

**Minn., Hutchinson**—Election March 9, to vote on bond proposition for a \$15,000, fire hall; F. W. Moore, city clerk.

**Mont., Maudlow**—A movement has been started for the building of a town hall; address city clerk.

**Neb., Hastings**—Bonds will be voted on at the spring election, April 7, to the amount of \$50,000 for a city hall. Address city clerk.

**N. D., Cottonwood Lake**—It is expected that a bond issue will be authorized next month at the city election for the erection of a city hall.

**N. D., Cottonwood Lake**—A vote will be taken next month on the proposition to build a town hall; address city clerk.

**N. D., Grand Forks**—Buechner & Orth, architects, St. Paul, will draw plans for the furniture required for the new court house here and bids for it will be advertised for by the board in the usual manner; the cost will be approximately \$25,000.

**Ont., Port Arthur**—Excavation is to begin at once on the new customs house.

**Sask., Regina**—The police commissioners will soon call for bids for the \$180,000 police station.

**Sask., Weyburn**—A new city hall will be built here this season; address city clerk.

**Wis., Neillsville**—A \$10,000 Carnegie library will be built here; the lot for a site has been purchased by private citizens; address city clerk.

#### BIDS WANTED.

**Ark., Heber Springs**—Bids will be wanted by Burns & McCauley, Fayetteville, Ark., (who have the contract on the court house building here), on steel beams, reinforcing bars, galvanized corners, steel ceiling, brick, cement, cut stone, mill work, wrought iron and plaster.

**Mont., Glendive**—Bids received by C. W. Bowles, city clerk, until 10 a. m., March 25, for a city hall; bids to include the entire cost; B. Rivenes, architect, Miles City, Mont.; check for 5 per cent.

**N. D., Langdon**—S. B. Prindle, Chicago, selected as architect for the jail and residence here. Bids for construction will be called for some time in April; J. K. Hamilton, auditor of Cavalier county.

#### CONTRACTS AWARDED.

**Iowa, Clinton**—Contract for fire station No. 3, bids opened Feb. 10, were as follows: Miller & Ladehoff, Clinton, general contract, \$6,440; J. L. McCarthy, Clinton, plumbing, \$275; Colman Electric Co., Clinton, \$53; P. A. Thelin, Clinton, painting, \$165. Other bidders on above work were: J. J. Tompkins, Clinton, \$9,300; Ed. Kreiger, Clinton, \$7,269; W. J. Murphy, Clinton, \$7,393; J. J. Logan, Clinton, \$7,394; Harbeck Construction Co., Clinton, \$9,051.

**Minn., Anoka**—Contract has been let to Morton Fenstad, St. Paul, for the general construction work on the armory building at \$13,285; heating, W. H. Mathieson, St. Paul, \$1,390; plumbing, Loehl & Karker, city, \$642; electric work, Olson & Boetger, \$301. A. A. Caswell, captain.

**Minn., Anoka**—Other bidders than the above on the new armory were as follows: General contract—A. G. Erickson, \$13,728; N. P. Fransen, \$13,848; W. H. Arrell & Co., \$15,370. Heating—Bradeen Bros., \$1,530; George McGeary, \$1,567; Kjelland Eng. Co., \$1,593; Loehl & Karker, \$1,655; Bjorkman Bros., \$1,675. Plumbing—Bjorkman Bros., \$863; Kjelland Eng. Co., \$973. Electric wiring contract—Zahm Electric Co., \$357; T. C. Electric Co., \$357; Nimis & Nimis, \$372; Electric Construction Co., \$450; R. D. Harrison, \$539; C. A. Stewart, \$812.

**Mont., Great Falls**—Contract has been made with the Grohne Contracting Co., Joliet, Ill., for painting, plastering,



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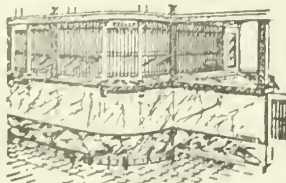
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bulletin board, etc., in the federal building here at \$4,596.

**Neb., Plattsmouth**—Contract has been let to L. G. Larson, city, for the county jail here at \$9,480; other bidders were: F. M. Schroeder, Omaha, \$9,480; Chas. Bauer & Son, Omaha, \$10,300; Peter Kiewit & Son, Omaha, \$10,460; H. E. Olsen, Omaha, \$10,545; Peters & Richards, Plattsmouth, \$10,568; Kiene & Bush, Omaha, \$10,815; Carl G. Johnson, Omaha, \$11,875; Busk & Wind, Omaha, \$11,990. J. P. Guth, architect, Omaha, Neb.

**Ont., Port Arthur**—Contract has been let to the Marsh Hatton Power Co., city, for the erection of the government custom house here; 65x125, 4-story, steel, concrete and brick, stone trimmings, \$250,000.

**Wyo., Douglas**—Contract for the government building here has been awarded to J. F. Jenkins & Co., Ocala, Fla.

## HOTELS AND HOSPITALS

*Notes Arranged Alphabetically by States.*

**Alta., Calgary**—The Bruner block site is to accommodate the hotel which the C. N. R. intends to build at a cost of \$1,000,000.

**Alta., Edmonton**—Plans are ready and work will start in the spring on a 10-story hotel here to cost \$300,000; Robert Moore, owner.

**Iowa, Marshalltown**—Earl and Harry Stoddard will erect a modern fireproof building for a hotel; 40x90, 7-story, \$100,000.

**Iowa, Mason City**—Announcement is made that the Sisters of Mercy of the chapter at Dubuque will build a hospital here, to cost about \$50,000. Address Rev. Mother Agnes, Dubuque.

**Iowa, Newton**—Election in the spring to vote bonds for a county hospital; H. S. Rayburn, county auditor.

**Minn., Jordan**—It has been decided at a recent meeting of stockholders of the Jordan Sulphur Springs & Mud Bath Sanitarium to erect another building, 40x100, 1-story and basement.

**Minn., Winnebago City**—Plans are under way for the building in the near future of a fireproof annex to the Hotel Florence, 30x40, 3-story and basement; baths, hot and cold water, all modern.

**Mont., Great Falls**—An additional permit has been issued to the Sexton-Lloyd Co., the Ness-Theisen Co., contractors, for a 3-story brick store and hotel; 50x150, \$33,000.

**Mont., Scobey**—Funds are being raised to build a hospital here. Address the mayor.

**Neb., Beatrice**—The Midwest Hotel Co. plans the remodeling of the Paddock hotel or the building of a new one, approximate expenditure of \$25,000. R. R. McGregor represents the Midwest Co.

**Neb., Norfolk**—The Perry Hotel Co. will build an addition of two stories, containing 20 rooms, to the Perry hotel; brick.

**Neb., Omaha**—An addition will be built to the Swedish Mission hospital; this spring at an approximate cost of \$60,000.

**Ore., Portland**—The Emanuel Lutheran hospital is considering building another addition to cost \$45,000; 5 stories, reinforced concrete, brick veneer; Tourtelotte & Hummel, architects, Rothschild building.

**Sask., Francis**—The Standard hotel destroyed by fire and may be shortly rebuilt.

**Sask., Regina**—A vote will be taken March 11, on providing \$175,000 for a general hospital and extending the laundry in connection therewith, and for completing the isolation hospital and building a nurses' home.

**Wis., Eau Claire**—The architect will soon be selected for the wing to Luther hospital, to cost from \$40,000 to \$50,000; building to begin in the spring; H. M. Knudson, secretary, 122 S. Barstow st.

**Wis., Green Bay**—State board of control has approved site for the tuberculosis sanatorium, the old Eleazar Williams farm; county board must appropriate the money before deal can be closed.

**Wis., Kansasville**—Robert Messmer & Bro., 1004 Majestic building, Milwaukee, are the architects for the home for the feeble-minded, located here and which will cost \$350,000; M. J. Tappins, secretary of the board of control, Madison, Wis.

**Wis., Tomahawk Lake**—The state board of control has authorized A. C. Eschweiler, architect, 720 Goldsmith building, Milwaukee, to make plans for the tuberculosis camp buildings, cost \$10,000.

**Wis., Wales**—Plans are in progress by A. C. Eschweiler, architect, 720 Goldsmith building, Milwaukee, for three dormitories for the state board of control; 26x40, 2-story and basement; M. J. Tappins, secretary, Madison, Wis.

**Wis., Whitelaw**—Plans completed Feb. 25, by Raeuber & Mehner, architects, Manitowoc, for an addition to the county sanitarium; frame, 20x96, 2-story and basement, concrete

foundation. Arthur J. Auton, county clerk, Manitowoc county.

**Wyo., Laramie**—A campaign is starting to raise funds for a new hospital. Address the mayor.

### BIDS WANTED.

**Iowa, Waterloo**—Bids received by J. J. Rainbow, auditor of Blackhawk county, until 2 p. m., March 20, for erecting a building for the poor and insane; separate bids on general construction, including electric plant, and on heating and plumbing; check for 5 per cent; J. G. Ralston, architect, from whom plans can be obtained for \$15, refunded on return of plans and a bona fide bid.

**Minn., New Ulm**—An error in regard to letting of contract for Union hospital building occurred in this column, issue of February 14th, when date was given as March 12th; it should have been March 2d; C. H. Dirks, secretary Union Hospital association, New Ulm; Alban & Lockhart, architects, St. Paul.

**Mont., Great Falls**—Plans are in progress and architects will take bids about March 1, for a 3-story addition to the Montana Deaconess' hospital; 40x140, \$60,000; W. R. Mowrey, architect; Miss E. August, Ariss, superintendent.

**Ont., Fort Williams**—Bids received by R. E. Mason, architect, Victoria block, until March 4, for certain alterations to the McKellar general hospital here.

**S. D., Watertown**—Bids received by the Luther Hospital Association, Wm. Gesley, secretary, until 2 p. m., March 10, for the following separate contracts: A—Fireproof gypsum block partitions and plastering; B—plumbing, heating and ventilation, with tile and marble work incident thereto; C—tile, marble and terrazzo work; D—electrical wiring and conduit work; E—nurses' call and signal system; F—millwork and carpentry; G—painting and finishing. Check for 5 per cent. The M. H. Hockman Co., architects and engineers, Watertown.

### CONTRACTS AWARDED.

**Iowa, Decorah**—Contract for the Decorah hospital has been let to A. R. Coffeen, city, at \$12,950; other bidders were: Geo. Brunner & Sons, \$13,827; Fred Suhring, \$18,998. Bids for heating, plumbing, electrical wiring, nurse calls, walks, to be let later. Two stories and basement, brick and tile, dark brick in basement, buff for the upper part.

**Wis., Tomahawk Lake**—Contract has been made with J. E. Utke, Marinette, Wis., for the proposed hotel at Bungalow.

## WATER WORKS

*Notes Arranged Alphabetically by States.*

**Ill., Grand Ridge**—No bids received for sinking a 10-inch well; J. T. Dearth, clerk.

**Iowa, Slater**—A vote will be taken at the March election on voting bonds for \$10,000 for water works.

**Iowa, Stanton**—A vote will be taken at spring election on installing water works; engineer Thos. S. Delay of Creston, will make plans and estimates.

**Iowa, Valley Junction**—A vote will be taken at spring election for voting \$39,000 water works extension bonds.

**Iowa, Wapello**—County boards of Louisa and Muscatine, let contract to McDonald Engineering Co., Chicago, for a pumping station at \$109,908; steam power will be used.

**Mont., Belt**—A vote will be taken at April election on issuing bonds for \$4,000 for water works.

**Mont., Conrad**—Manager Darling, of the Conrad Water Co., states that a pipe line will be built from the storage reservoir to Lake Frances early in spring.

**Mont., Cut Bank**—A municipal water works system is contemplated; write City Engineer Jaqueth.

**Neb., Eagle**—Town board considering installing a water system; two engineers of Omaha were here recently and met with board.

**Neb., Eddyville**—A petition is being circulated asking town council to furnish capital for a water system in business section.

**Neb., North Loup**—Election March 9, to vote on bonds for \$15,000 for establishing a water works system; C. O. Ernest, village clerk.

**Neb., Palmyra**—A vote will be taken at spring election on installing a water works system.

**N. D., Elgin**—The improvement association is arranging to provide the town with fire protection.

**S. D., Parkston**—Water mains will be extended.

**Wis., Ashland**—The city was ordered by the state rate commission to install a laboratory for the analysis of its water and to provide for the filtering of the entire supply.

**Wis., Hayward**—Chairman McClain, of the water committee, says improvements will have to be made in the water

### BIDS WANTED.

**Alta, Edmonton**—Bids received March 12 by city commis-

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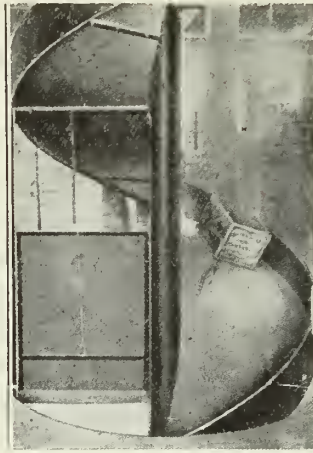
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sion for fire hydrants, gate valves, water meters, pig lead, steel pipe and cast iron pipe required by the city.

**Minn., Hugging**—Bids received by D. D. Haley, 7:30 Feb. 24, for drilling a deep well diameter either 16, 18, 20 or 24 inches; check for \$200; also for 6,000 feet of 12-inch cast iron water pipe; check for 10 per cent.

**Minn., St. Cloud**—Bids will soon be advertised for by the city commission for another electrical pump at the pumping station; write Mayor S. Seberger.

#### CONTRACTS AWARDED.

**Iowa, Eagle Grove**—Contract let to Joe Kist and U. M. Borning, local men, for sinking a new well.

**Man., The Pas**—A. G. Sangster, Saskatoon, Sask., awarded contract for a reservoir by water and light commission.

**Minn., Graceville**—Contract for steel water tank awarded to Minneapolis Machinery Co.

**Mont., Columbus**—Contract for water works let to D. J. O'Neill and Angus McLaughlin, Livingston, at \$28,000.

**Neb., Seward**—Contract let to C. A. Killian, Morse Bluffs, Neb., for sinking town well at \$3,300.

**Wis., Lake Geneva**—Cement Stone & Gravel Co. awarded contract for construction of water intake and sewer outlet.

## THEATRES AND HALLS

*Notes Arranged Alphabetically by States.*

**Alta., Calgary**—Alex Pantages, head of the Pantages vaudeville circuit, will erect a \$400,000 theater here the coming season.

**Iowa, Atlantic**—The new building to be erected by the Elks will cost about \$30,000.

**Iowa, Clinton**—John Morrell & Son, architects, 410 Howes building, city, have been taking bids for a theater and store building, owned by Donlan Bros.; 94x116, 2-story.

**Iowa, Cresco**—The Monarch Studios, 230 Shubert building, St. Paul, having been taking figures on a theater to be owned by a stock company; care of Mr. Reed, Cresco; 50x120.

**Iowa, Lakeview**—Preliminary plans are in progress by L. L. Lawrence and C. J. Larson for an opera house; office and store building; 78x100, 2-story and basement, \$12,000; G. W. Burkhead, 415-18 Grain Exchange, Sioux City, Iowa.

**Iowa, Marshalltown**—Architects have been taking bids for the Y. M. C. A. building, containing swimming pool and gymnasium; 60x153, 4-story and basement, \$75,000; Shattuck & Hussey, architects, 19 S. LaSalle st., Chicago; H. E. Wilson, secretary, Marshalltown.

**Kan., Leavenworth**—Bidders for the Masonic building were as follows, opened Feb. 11: R. B. Yoakum, \$37,700; Fred Tarry & Son, \$37,734; J. Barnes, \$40,878; J. W. Wright, \$42,998; V. A. Kelly, \$42,653; E. Drier, Kansas City, \$43,225. Tholen Bros., heating, lighting and plumbing, \$5,822; Herbert & Mattox, Atchison, plumbing and heating, \$4,995.20; Foley & Co., Kansas City, heating, \$3,000; Coldren Plumbing & Heating Co., heating and plumbing, \$4,016; C. L. Lord, lighting, \$1,986. The building will call for terra cotta, brick, steel, cement, marble, plate glass, heating, lighting, plumbing.

**Kan., Kinsley**—A stock company is proposed to build a modern opera house and Odd Fellows hall, two stories and basement, probably fireproof construction.

**Minn., Adams**—Plans have been completed by W. F. Keefe, architect, 68 Union block, St. Paul, for moving picture theater and store for John Kresbach, Adams; 48x80, 1-story and basement, seating capacity, 350; cost \$20,000.

**Minn., Cloquet**—Over \$6,000 have been raised for an opera house in the East End; address the mayor.

**Minn., Cloquet**—F. L. Redfield, city, will build a theater here to have a seating capacity of 700 and to cost \$10,000; H. A. Sherman, Minneapolis, will be the manager.

**Minn., Crosby**—Plans will be started in April for a club house for the Steel Ore Co.; 100x100, 1-story and basement, \$15,000; Bray & Nystrom, 1200 Fidelity building, Duluth, Minn.

**Minn., Rochester**—Plans have been received for the new Commercial club building, the plans calling for 22 good sized rooms, all with closets; a laboratory and bath room is also provided for; J. M. Rowley, secretary building committee, Commercial club.

**Minn., Wells**—Plans are being prepared by Henry Gerlach, architect, Mankato, for a large hall to be erected by the Knights of Columbus; 100x130, pressed brick with stone trimmings, \$40,000; six stores on the ground floor, second floor for lodge room and offices.

**Minn., Winona**—The Elks have purchased the Union club hall on E. 4th st. and will remodel it into a lodge home; the lodge is No. 327.

**Mo., Nevada**—John W. Williams and others propose to build a modern fireproof theater to cost about \$35,000.

**Mont., Great Falls**—Plans are in progress for the Masonic Temple; 70x100, 3-story, \$50,000; W. R. Mowery, architect.

**Mont., Lewistown**—Wasmandorff & Eastman, architects, are receiving bids on a hall to be built by the Odd Fellows and Knights of Pythias to be opened March 2.

**Mont., Poplar**—Plans are under consideration for various alterations to the Walker opera house.

**Neb., Norfolk**—Al Koyen has announced that a brick addition would be constructed to the Lyric theater at once; modern stage and additional seating capacity for 200 persons.

**Neb., Stockville**—The Odd Fellows have decided to build on the site occupied by their building which was destroyed by fire, to be of cement brick.

**Neb., Wausau**—The Masonic lodge will build a hall here.

**N. D., Grand Forks**—The local Moose order have appointed a committee, of which James A. Dinnie is chairman, to look up a site and receive plans for the erection of a building for the order.

**Sask., Moose Jaw**—Arrangements have been made for the erection of a theater building here by Pantages vaudeville circuit which plans theater buildings also in Calgary, Edmonton, Saskatoon and Regina; address Wm. B. Sherman, Calgary for particulars.

**Sask., Regina**—Martin Beck, president of Orpheum vaudeville circuit, is considering erecting a theater here to cost \$100,000.

**S. D., Hitchcock**—The opera house destroyed by fire, H. I. Gifford, owner.

**S. D., Nisland**—The Odd Fellows have bought the Vale hotel and will remodel it for lodge purposes.

**Wash., Spokane**—Plans for the \$100,000 theater to be built by August Paulsen will soon be completed by E. W. Houghton, architect, Collins building.

**Wis., Grand Rapids**—One-half of the \$25,000 needed for the Elks club house has been subscribed.

**Wis., Green Bay**—The Loyal Order of Moose has bought a building site and expect to erect a lodge building to cost \$50,000. Elmer S. Hall, chairman of committee.

**Wis., Hartland**—Bids have recently been received by Christensen & Kenitz, architects, 87 Howell av., Milwaukee, for a theater which is being built by Mrs. Jessie L. Davis, care of the architects; 24x62, 1-story and basement.

**Wyo., Diamondville**—The Miners' union is having plans drawn for a new hall, the lower floor of which will be used for a theater; cost \$10,000.

#### BIDS WANTED.

**Kan., Valley Falls**—Dr. M. F. Marks, city, has plans completed for an opera house and bids will be called for soon.

**Neb., Germantown**—Tyler & Brandt, architects, Richards block, Lincoln, Neb., are ready to take bids on a hall and theater to be owned by Louis Meyers, Germantown; 30x80, 1-story, \$6,000.

**Wis., Appleton**—Bids received by Shattuck & Hussey, architects, 19 S. La Salle st., Chicago, until March 10, for the Y. M. C. A. building, containing swimming pool and gymnasium; 106x71x58, 4-story and basement, \$85,000; F. J. Harwood, secretary, 515 Mead st., Appleton.

#### CONTRACTS AWARDED.

**Iowa, Cedar Falls**—Contract for the new picture show has been let to Contractor Smith, Waterloo; plans call for a remodeling of the old opera house.

## SCHOOLS

*Notes Arranged Alphabetically by States.*

**Alta., Calgary**—Seven schools of agriculture will soon be established in Alberta by the Provincial government.

**Iowa, Ames**—Three new buildings will be erected at the Iowa university in 1914; new gymnasium, cost \$125,000; a nurses' home, cost \$50,000; an extension to the engineering shops.

**Iowa, Bristow**—On March 9 Bristow will vote for a new school house.

**Iowa, Charter Oak**—Father Schaefer has plans drawn and a site selected for school building.

**Iowa, Eldora**—A new laundry building will be erected at the Industrial school here; cost \$15,000.

**Iowa, Sheffield**—\$35,000 school bonds were voted.

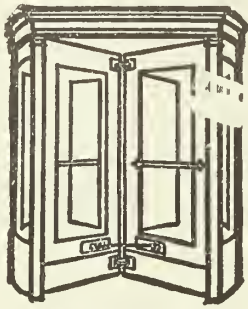
**Iowa, Westfield**—Plans for the new Thomas A. Edison school by architect J. G. Ralston, have been approved by the West Waterloo school board; bids received until Feb. 25; cost about \$35,000.

**Iowa, Williams**—A special election will be held soon to vote on erection of a new school building.

**Minn., Lake City**—A 2-room school building will be erected here, stucco and tile, in the Dumfries district.



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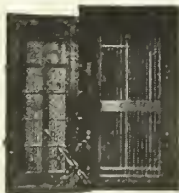
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**Minn., Pierz**—A new parochial school building will be 76x80, 8-rooms; Father Stiegler, pastor of St. Joseph's congregation interested.

**Minn., Richmond**—School board voted to erect a new school house, 20x28, concrete basement, Frank Rothstein, treasurer.

**N. D., Ardock**—Fire destroyed the high school building; loss, \$7,000; insured \$4,000.

**N. D., Blabon**—A consolidated school will be erected here; cost about \$12,000.

**N. D., Maddock**—A high school will be erected here; cost about \$25,000; city is also building an agricultural and training school, to be finished about Sept. 1; cost \$50,000.

**Ont., Port Arthur**—The plans prepared by Hood & Scott for additional four rooms to each of the north and south ward schools were accepted by board of education; cost about \$50,000.

**Sask., Moose Jaw**—The Saskatchewan college trustees plan to raise \$100,000 for extending Moose Jaw college for girl students.

**Sask., Regina**—The Saskatchewan Presbyterian association are working on proposition to erect a \$1,000,000 denominational college here, site and grants received, and it is expected that some arrangements will be made for erection of college during the year; the Roman Catholic association are also planning to erect a college.

**S. D., Aberdeen**—School house in Ravinia township, 124 was burned; known as the Beigler school.

**S. D., Chamberlain**—The Catholics of this city are agitating the question of erecting a sisters' school in the near future.

**S. D., Epiphany**—A new brick school house will be erected here.

**S. D., Plankinton**—School patrons of Patten township are planning to erect a large 6-room school house, modern throughout, construction to begin in the spring; Aurora county.

**Wis., Waukesha**—Fire damaged the Hadfield school building, \$3,000; insured at \$12,000.

**Wis., Whitewater**—Plans are being prepared for erection of a \$50,000 gymnasium for the normal school, 65x120; work to commence early in summer.

#### BIDS WANTED.

**Alta., Morinville**—Bids received until March 2, 2 p. m., for erection of a 4-room school house, brick veneer, check 10 per cent; plans on file at office of J. B. Dalphond, secretary-treasurer, Thibeault, R. C. S. D. No. 35, Morinville.

**Iowa, Lohrville**—Bids received by Irving Jenkins, president school board, for a 12-room school building. Officially advertised in this issue of the Improvement Bulletin.

**Iowa, Maskell**—Bids received until March 5, for erection of a 2-room brick school house, here; plans on file at architect G. W. Burkhead's office, Sioux City, check for 5 per cent; Elmer Wright, secretary.

**Iowa, Sioux City**—Bids received until 5 p. m., March 10, for furnishing and delivery of 1,700 seats or a less number for seating the auditorium of the high school building; plans on file with F. E. Colby, architect, Sioux City; J. Lee Strom, secretary.

**Iowa, Toledo**—Bids received until March 3, 2 p. m., for raising and erecting a new school building by secretary J. H. Ross, office at Struble & Stiger Loan & Investment Co., Toledo, Iowa; plans by architects Proudfoot, Bird & Rawson, Des Moines, separate bids received for installation of heating and plumbing system; check for \$1,000, on general work and \$300 on heating and plumbing, Charles Benesh, president board of directors of independent school district of Toledo.

**Minn., Eveleth**—Plans prepared by Architects Bray & Nyström, Duluth, for a 2-story fireproof school building, brick, 68x140, cost \$15,000; steel frame, beams and sash, ornamental iron, reinforced concrete, fireproofing, terra cotta cut stone, common, pressed, hollow brick, steam heat, electric lights, skylights, composition roof; bids received May 1 by architects, close May 15.

**Minn., Winthrop**—Bids received until March 11, 12 m., for erection of a school house in district No. 44; plans on file at the First National Bank, Winthrop, Minn., Herman Thole, clerk, school board district No. 44.

**N. D., Baker**—Bids received until 1 p. m., March 23, for erection and completion of a consolidated school building here; plans on file with Arthur Van Horn, architect, Bismarck, N. D.; also at Baker Hardware Store, Baker, N. D., Grand Forks Builders' Exchange, Grand Forks, and office of Hendrick Odegarde, Baker, N. D., clerk.

**N. D., Langdon**—Bids received March 18, 4 p. m., for erection of four school houses in district, Hay, Cavalier county; check for \$500; John Baldson, Osnabrock, N. D., clerk; separate bids received for excavating and cement work on basement.

**N. D., New Salem**—Bids received until March 10, 6 p. m., for erection of addition to the New Salem school district No. 7; J. Henry Kling, clerk, district No. 7, Morton county.

**N. D., St. John**—Bids received until March 19, for erection of a 2-room school building. Bids received by Wm. Schull; for information concerning plans and specifications, write Owen D. Zellner, clerk of board.

**Sask., Swift Current**—A public school building will be erected here, plans by Reilly, Dawson Hancock & Reilly, architects, city; cost \$65,000. Bids close Feb. 21, 1914.

#### CONTRACTS AWARDED.

**N. D., Russell**—B. D. Banker has contract for remodeling old school house.

**Wis., Keshena**—J. O. Shuling & Co., of Alexandria, Minn., have contract for erection of a new dormitory school at the Menomonie reservation; solid brick, modern throughout, 53x71, 3-story, with lavatory and bath room, 32x32.

## MILLS AND FACTORIES

#### Notes Arranged Alphabetically by States.

**Alta., Cardston**—Dr. O. D. Weeks, announces that a company has been formed by the Cheif Canning Co. which will erect a pea canning factory here; site chosen and building to commence this spring.

**Alta., Lethbridge**—The shareholders of the Alberta Mills Co. have increased their stock and will erect additions to their present plant.

**\*Alta., Medicine Hat**—Warren Overpack has purchased the Purmal Brick Co.'s plant, and will greatly increase its capacity by extending and installing machinery.

**Alta., Redcliff**—The Redcliff Rolling Mills & Bolt Co. is erecting a plant here.

**B. C., Victoria**—A 6-story building will be erected by McCutcheon Bros., estimated cost \$125,000.

**Iowa, Cedar Rapids**—Cedar Rapids Gas Co. have plans under way for erection of a large plant here.

**Iowa, Clinton**—The Joyce Lumber Co. will erect a large planing mill; cost \$30,000.

**Iowa, Estherville**—J. J. Donelan of Kansas City was here looking for location of a gas plant.

**Iowa, Fort Dodge**—W. M. Moore of St. Joe, Mo., will erect a mattress factory here.

**Iowa, Keokuk**—Fire damaged the Keokuk Fox Factory about \$8,000; owned by Calvin T. and Cephas Harrison.

**Iowa, Leon**—Gammon Bros. are making preparations for erection of a mill, 50x60, concrete construction, work to commence soon.

**\*Iowa, Manly**—H. H. Schulte and H. D. Backhaus were in Albert Lea, Minn., consulting an architect in regard to the new creamery building to be erected there soon.

**Iowa, Sioux City**—George W. Avery will erect a building, 3 or 4-story, 50x150, of reinforced concrete; cost \$60,000.

**Iowa, Sioux City**—A new 3-story plant, 75x150, will be erected by Perkins Bros.; cost \$175,000.

**\*Mich., Pentoga**—The mill of the Iron Range Lumber & Cedar Co. was burned; estimated loss \$15,000; C. J. Huebel, president.

**\*Minn., Duluth**—Architect Richard E. Oberst has closed bids on a manufacturing plant of mill and concrete construction, 2-story, 65x140, cost \$30,000.

**Minn., Minneapolis**—Fire in the boiler room of the Lenhart Wagon Co. plant at 2600 University av. SE., caused \$4,500 damage.

**Mont., Anaconda**—Construction on the Slime concentration plant at the Washoe smelter is rapidly nearing completion.

**Mont., Judith Gap**—The Farmers have decided to erect a cheese factory; committee chosen to look up site; P. J. Murphy, and others.

**\*N. D., Lakota**—A meeting will be held March 3 by the farmers here to discuss proposition of erection of a creamery.

**\*Sask., Moose Jaw**—Additions are being made to the factory here, of the Saskatchewan Glass Supply Co.; cost \$15,000.

**Sask., Moose Jaw**—A flour mill is being erected here for the Union Mills Co., of Minneapolis, Minn.

**Sask., Prince Albert**—Felix Frank will erect a factory to produce nitrogenous fertilizers and other chemical substances.

**Sask., Regina**—The Western Tire & Rubber Co. will erect a factory here, cost about \$175,000; solid brick or reinforced concrete, 300x60, 2-story. Mr. Sharpe interested.

**Sask., Regina**—The Leiton Bros., Flour Mills, Ltd., will erect a warehouse here, building operation to commence soon.

**Wash., Everett**—The Jamison Shingle Co. have commenced erection of a large shingle mill. It is announced that a new company, known as the C. B. Lumber & Shingle Co. will build a mill, with capacity of 350,000 shingles in a day; Olaf Carlson, president; W. R. Cunningham, interested; cost about \$50,000.

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000; plans drawn by designer Arthur Praena; plans so arranged that a cedar lumber mill can be added later.

**Wis., Ellsworth**—Bennett & Kjelstad saw mill of Isabelle will be built on the Fred Weghorn place.

**Wis., Fond du Lac**—The Northern Casket Co. will erect an addition to their plant, 60x120.

**Wis., Green Bay**—P. T. Benton, architect, Forestville, Wis., Door county, has prepared plans for a collar factory 2 story, brick, for Frank Kress; 65x108, cost \$7,000, bids received Feb. 21; concrete foundation, common brick, stone, composition roof, steam heat, factory roofing.

**Wis., Hubbleton**—Fire destroyed the feed mill owned by R. Elliott of Madison; loss about \$2,800.

**Wis., Menomonee**—A new concrete factory will be erected here by H. O. Heistrom of Eau Claire.

**Wis., Milwaukee**—The Franklin Packing Co. will erect a 6-story plant with 6 big rendering tanks; cost \$200,000.

**\*Wis., Nashville**—The saw and planing mill of the W. H. Rogers Lumber Co. burned; loss \$25,000; insured \$12,500.

**Wis., Reedsburg**—Valecia Condensed Milk Co., of Madison, has decided to erect a \$100,000 plant here, 2 story, 80x220, brick and concrete construction.

## CHURCHES

*Notes Arranged Alphabetically by States.*

**Alta., Calgary**—Site has been secured and a church may be erected by the North Hill Presbyterian congregation; write pastor.

**Iowa, West Chester**—The United Presbyterian church burned; loss about \$10,000; insured \$5,000.

**Man., Hamiota**—Fire destroyed the Methodist Church building here, may be rebuilt.

**Minn., Mankato**—Albert Schippel, architect, Mankato, will draw plans for the erection of a church for St. John's Evangelical congregation; brick; cost \$12,000.

**Minn., Plato**—Albert Schippel, architect, Mankato, Minn., is preparing plans for a church for the German Evang. Cong.; brick, cost \$12,000, steel frame trusses, beams and cast columns, cut stone, common pressed brick, furnace heat, private electric light plant, sheet metal cornice, asbestos shingle roof, common plaster, maple floors, oak finish; owners will select art glass; work not started; Rev. August Zielenske, pastor, Plato, Minn.

**Minn., St. Hillaire**—The Swedish Lutheran congregation will build a parsonage.

**Mont., Conrad**—Fire destroyed the First Presbyterian Church here; loss about \$5,000; partially insured. Rev. A. M. Stevenson, pastor.

**Mont., Worden**—Carpenters are at work on the M. E. church here.

**N. D., Medina**—The German Reform church will erect a new building soon, Daniel Preszle, Henry Trautman and Peter Kerner building committee, Rev. R. Birk, pastor.

**Wis., Luxemburg**—Plans have been drawn for erection of a church here in the spring; brick, modern; cost \$5,500; for St. Odville congregation; Jos. Barette, Peter Monard and others, committee.

### BIDS WANTED.

**\*Iowa, Ridgeway**—Bids received by secretary of the building committee of the Norwegian Lutheran congregation until 1:30 p. m., March 13, for a brick church. Plans by J. E. Nason, 622 Corn Exchange, Minneapolis. Check for \$300. Officially advertised in this issue of the Improvement Bulletin.

**Minn., Cannon Falls**—Bids received until 2 p. m., March 10, for painting the Swedish Lutheran church building; plans on file at Citizens' State Bank, Cannon Falls, with treasurer.

**\*Minn., Delano**—Bids received by Rev. Stephen Zdechlik until 8 p. m., March 21, for erection of the church of St. Marys; check for \$500. Officially advertised in this issue of the Improvement Bulletin. Victor Cordella, architect, Minneapolis.

**Minn., Fairfax**—Fire destroyed the M. E. church here, valued at \$15,000; insured \$9,000.

**N. D., Ryder**—Bids received by A. C. O. Lomen, secretary of the board of trustees of the Presbyterian church, until 8 p. m., March 23, for building a church; officially advertised in this issue of the Improvement Bulletin.

**Sask., Yorkton**—Bids are being taken for erection of a church by the Ruthenian Catholic Mission here. Work in connection with building in hands of pastor, Rev. A. Delaere, Superior of the Redemptionist order, who have charge of the Ruthenian Mission here.

**Wis., Amherst**—Bids received until March 14, 1 p. m., for constructing all brick cement, stone, plastering and lathing work on the German Lutheran church here; plans on file at

International Bank Amherst, bids to be left at bank; Ernest Borchert, secretary.

**Wis., Oshkosh**—Bids received until 5 p. m., March 23, for erection and completion of a church building and parsonage for St. Vincent de Paul's congregation; plans prepared by Foeller & Schober, architects, Green Bay, Wis.; separate bids received on the following work: mason work, iron work, carpenter work, including lathing and plastering, sheet metal work and roofing, electric wiring, plumbing and heating; check for 5 per cent; plans on file at residence of Rev. A. Bastian, 1216 Oregon st., Oshkosh, and at office of architects.

**Wis., Two Rivers**—Bids received until March 16, for re-shingling St. Luke's church with asbestos shingles, laid in French method; further particulars can be obtained from pastor, Rev. J. A. Geissler or Jos. L. Klein, secretary; address bids to pastor, Two Rivers, Wis.

### CONTRACTS AWARDED.

**Iowa, Maxwell**—Contract awarded to C. W. Ennis, Toledo, Iowa, for new Presbyterian church at \$15,808, at Maxwell; plans prepared by Harry E. Netcott, architect, Independence, Iowa; other bids: Coan & Conway, Davenport, Iowa, \$19,352; Cole Bros., Ames, Iowa, \$18,625; Park & Wheeler, Belle Plain, Iowa, \$17,165; Thaise & Co., Des Moines, Iowa, \$16,630; Watkins & Ehler, Ames, Iowa, \$16,399.

**Wis., De Pere**—Contract awarded to Conrad Schmitt of Milwaukee, for redecorating the interior of the Church of St. Mary, Rev. Father Van Roosmalen, pastor; cost \$1,000; Mr. Schmitt also has contract for redecorating the church at Eaton, \$1,000.

## ELEVATORS

*Notes Arranged Alphabetically by States.*

**Iowa, Sac City**—A contract has been awarded to a Cedar Rapids firm by board of directors of the Farmers' Elevator Co., at Farnhamville for construction of an elevator, with capacity of 30,000.

**\*Iowa, Waukon**—Fire destroyed the Minert and Nagel elevator and feed stable here; estimated loss \$12,000, partially insured.

**\*Iowa, Wellsburg**—Fire destroyed the grain elevator of M. H. Tjaden; loss \$15,000.

**Neb., Beatrice**—At meeting of the Courtland Farmers' Elevator Co. the stockholders authorized the construction of a new elevator; cost about \$10,000.

**N. D., Edmore**—The office of the Burgess Elevator Co. was burned.

**\*N. D., Westby**—The Farmers' Grain and Trading Co. had a special shareholders meeting here and decided to erect an elevator.

**\*Sask., Melfort**—A company has been formed under the name of Canadian Grain Co., Ltd., with headquarters here, and will erect three elevators the coming summer, at St. Brieux, Sask., Beatty, Sask., and one at Naisberry, Sask.

**Wis., Superior**—Belt Line Elevator Co. of Peavy Grain Co. has been sold to a Superior Terminal Co. A. Cargill subsidiary, for \$300,000 extensive improvements will be made this summer.

## GARAGES AND BARNs

*Notes Arranged Alphabetically by States.*

**Iowa, Charles City**—Plans prepared by J. O. Hughes & Co., of Charles City, architects and contractors, for large barn and silo, machine sheds, etc., on farm of W. J. McCullough.

**Iowa, Clarinda**—W. W. Welsh will erect a new garage soon.

**Iowa, Dana**—Welsh Bros. will erect a modern garage.

**Iowa, Waverly**—Mr. Page of this city has commenced erection of a garage.

**Minn., Argyle**—The large barn of Elvois Proulx burned; loss \$6,000.

**Wis., DePere**—R. C. King is preparing to erect a large barn.

**Wis., Ellsworth**—A. J. Mumford will build a large barn in the spring.

**Wis., Peshtigo**—The Cholette House livery barn burned; loss \$4,000; insured \$1,000.

### CONTRACTS AWARDED.

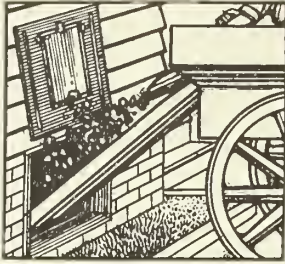
**Neb., Omaha**—A. P. Tukey & Son have awarded to E. O. Hamilton, contractor, contract to build garage for Ed. Phelan.

**Wis., Delevan**—Jas. Davidson & Son have contract for erection of a garage for W. E. Pfeffer, modern.

**Wis., Marshfield**—Leo Rose has let contract to contractor Ed. Halle to build a barn, 22x36.



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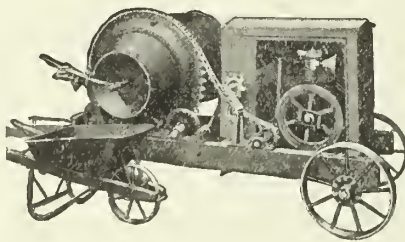
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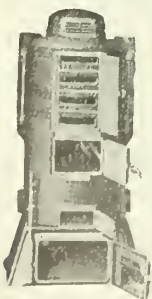
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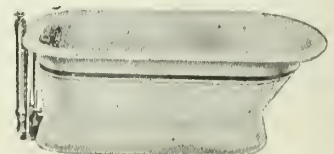


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## BUSINESS BUILDINGS

*Notes Arranged Alphabetically by States.*

**Alta., Bow Island**—Fire destroyed the business section of town; loss about \$100,000.

**Alta., Calgary**—Plans are being prepared for the erection of the new \$192,000 industrial building.

**Alta., Camrose**—Following buildings were destroyed by fire: George Wells' gents furnishing store, A. Caruthers' general store, W. G. Duggan's hardware and commercial cafe.

**Alta., Edmonton**—A large block will be erected by John Walters, on Main st. and Whyte av., work to commence during the coming summer.

**Alta., Okotoks**—Fire destroyed the clothing store and large portion of the business district here; loss estimated at \$200,000.

**Alta., Red Deer**—B. F. Ackerman, of Petersboro, Ont., contemplates erection of a wholesale distributing warehouse, for harness and horse clothing business.

**Iowa, Cedar Rapids**—Fire damaged a large portion of the American Trust and Savings Bank.

**Iowa, Ft. Dodge**—Plans are being drawn for an addition to Cadillac Sales Co., garage; plans to be submitted to J. W. Smith.

**Iowa, Keokuk**—Fire destroyed the building owned by A. J. Hickey, and occupied as a restaurant and liquor store; total loss.

**Iowa, Marshalltown**—J. W. Arkin will make extensive improvements in his store building; cost about \$2,000.

**Iowa, Mason City**—A large building will be erected on the Evans property; owner's name not given; cost \$15,000.

**Man., Brandon**—Bids received Feb. 28 for erection of a warehouse building; R. G. Bunyard, Moose Jaw, Sask., architect.

**Man., Brandon**—A new wholesale grocery and fruit house is to be erected here for particulars apply to city clerk.

**Man., The Pas**—Fire destroyed the trading post of the Ravillion brothers, at Cumberland House; loss \$22,000; partly insured.

**Minn., Crosby**—Will S. Pitt Co. is erecting an \$18,000 business building. Edward Gustad awarded general contract; Pollock Bros., plumbing and heating contract, and Blake Electrical Co., the electrical work; modern, 2-story.

**Minn., Detroit**—Fire damaged Michigan Safety Furnace Pipe Co., Kennedy Machine Co. and Detroit Loose Leaf Specialty Co., about \$100,000.

**Minn., Sleepy Eye**—Fire destroyed blacksmith shop and garage of Ed. Remmele; loss about \$4,000; insured \$2,000.

**Minn., St. Paul**—The Twin City State Bank will erect a new building on South side of University av., 2-story brick.

**Minn., St. Paul**—The Sherman block will be remodeled; cost \$40,000.

**Minn., Wells**—H. C. Gerlach, architect, Mankato, Minn., prepared plans for a lodge and business building, for Knights of Columbus, Geo. L. Schmitz, secretary; brick, 2-story, 100x120; cost \$40,000; steel beams and columns, iron joist hangers, lime cut stone, common, pressed and hollow brick, vacuum blower, steam heat, copper or galvanized cornice, tin roof, plaster board, metal lath, best grade varnish, plate, prism, wired, ribbed, art and sidewalk glass, tile floors, maple floors, birch finish; plans at St. Paul Builders' Exchange; secretary Geo. L. Schmitz takes bids.

**Minn., Winona**—Fire destroyed the large store of Archie Holt.

**Mont., Geyser**—Fire destroyed the Kneer building at Windom, owned by Chris Kneer, valued at \$2,000.

**Mont., Lewistown**—The Fergus County Realty Co. is erecting a postoffice building.

**Mont., Livingston**—Thomas Miles of Wm. Miles & Bros., announced that firm with C. O. Krohnem, has purchased lots of First State Bank and will erect a 2-story business block.

**Mont., Moore**—Fire destroyed the Nihill & Stone building; insured.

**Neb., Lincoln**—Woods Bros. Silo Manufacturing Co. will erect an office building and show rooms; plans drafted; brick, 2½-story, 50x142.

**Neb., Norfolk**—Fire destroyed the Kiesaw drug store; loss \$15,000; shoe store of F. E. Davenport and store of A. L. Killen damaged; total loss \$40,000.

**Neb., Norfolk**—Willems bakery, Scott automobile building, Raasch grocery store, are under way.

**Ont., Port Arthur**—The J. J. Carrick Co., Ltd., firm has been reorganized and will erect a new office building in the spring.

**Sask., Regina**—The Huber Manufacturing Co., of Marion, O., will erect an implement warehouse and offices here; cost \$60,000.

**Sask., Regina**—Credit Foncier Bank will erect an addition to their bank building.

**Sask., Regina**—Permits issued for erection of two rows of 1-story stores to McCallum & Hill and Wilson & Wilson. Total estimated cost of buildings, \$45,000.

**Sask., Swift Current**—A store and office building will be erected on block 55, Central av. for Mackenzie & Mann; cost \$15,000; Geo. Ferris, architect, Swift Current.

**S. D., Haven**—Plans prepared by Geo. F. Fossum, architect, Aberdeen, S. D., for a 1-story brick bank building, 25x60, for the First State Bank, concrete foundation, contract to be let about March 7; cost \$5,000.

**S. D., Kimball**—Stock Growers' Bank incorporated, capital \$50,000; charter applied for by A. E. Matson, George Blum, and Mike Liesch, a new bank and office building will be erected.

**S. D., Lake Andes**—Fire destroyed the E. G. Walz mercantile store and the Caster building adjoining; total loss.

**S. D., Lesterville**—Will C. Poppe will build a large general store at Plumb, a new town between here and Scotland.

**S. D., Sioux Falls**—Work will soon commence on erection of a large modern office building for Carl Look, 60-foot front on Phillips av. and 150 on 8th st., fireproof throughout.

**Wis., Chippewa Falls**—The Leinenkugel Brewing Co., will erect a large brick block.

**Wis., Delevan**—Acme Building Co. will build an office building, 2-story, 32x54, with basement; plans being drawn by a Madison, Wis., architect.

**Wis., Green Bay**—Fire destroyed the cold storage plant of the Turek Bros., loss estimated at \$15,000.

**Wis., Grantsburg**—J. H. Jensen has purchased a site and will erect a large office building.

**Wis., Melrose**—A. J. Roiseland will erect a photograph gallery, work to start early in spring.

**Wis., Milwaukee**—Fire destroyed Bluemfeld-Locher millinery store; loss about \$60,000.

**Wis., Wrightstown**—Herman F. Roebke plans to erect a 2-story solid brick and iron building, 44x100; concrete and stone basement, electric lights; cost \$100,000.

### BIDS WANTED.

**Mont., Lewistown**—Contract for erection of new state bank building will be let about the 20th of next month; 1-story, 24x36, wire-cut brick, glass front, hard maple floors and tile and cement floored basement.

**N. D., Wahpeton**—Bids received until March 4, 12 m., for erection of a 2-story and basement store and office building, plans on file with A. J. O'Shea, architect, Fargo, N. D.; check \$250.

**Wis., Forestville**—P. T. Benton, of Forestville, Door county, prepared plans for a bank building for the State Bank of Forestville, 1-story, brick, 26x42, cost \$4,500. Bids received Feb. 25, by architect. Two-vault doors, furnace heat, composition roof, oak maple and terra cotta floors, Georgia pine finish.

### CONTRACTS AWARDED.

**Alta., Edmonton**—Contract awarded to Allen J. Olson, of the Olson & Johnson Co., for erection of a 10-story office building, K. A. McLeod, interested; cost estimated at \$600,000.

**B. C., Victoria**—Contract for the Hudson Bay company's departmental store, was let to the British Columbia Construction Co., work to start soon, at about \$8,000.

**Man., Winnipeg**—J. S. MacInnis, 51 Cathedral av., Winnipeg, has contract for erection of five business buildings.

**Minn., Ceylon**—Contract awarded to H. G. White, Clarion, Iowa, for erection of a 2-story store building at \$8,400; other bids were: Poppe Bros., Ceylon, Minn., \$12,458; Beckwall & Widell, Mankato, Minn., \$10,752; George Hengel, Fairmont, Minn., at \$11,344; J. B. White & Son, architects.

**Minn., Fairmont**—Beckwell & Widell, general contractors, 209 North Front st., Mankato, Minn., have contract for erection of a large store building for Wolf-Habein Co., general merchandise dealers; 2-story, and basement, 38x129, modern, pressed brick, to be completed this spring.

**Mont., Choteau**—Lange Construction Co. of Great Falls, was awarded contract for installing new store front for Jos. Hirshberg & Co.; cost \$4,000.

**Neb., Silver Creek**—Contract for construction of Roth & Kula-Clutter block let to C. N. Powers.

**Sask., Swift Current**—Plans for a store and office building, for A. Healey, owner and contractor; cost \$100,000; corner Cheadle st. and Central av.

**Wis., Amherst**—Contract awarded to A. L. Rounds for erection of a store building for Enoch Wall; 55x70, full basement, 3-story, brick veneer, modern.

**Wis., Casco**—The Bank of Casco will erect a 1-story fireproof bank building, 27x25, plans by W. E. Reynolds, architect, 109 S. 11th st., Green Bay, Wis., cost \$3,435. Contract awarded to J. J. Wesner & Blaknek, Casco; frame steel trusses, iron stairs, tile, reinforced concrete fireproofing, lime, said cut stone, common pressed fire hollow brick, vault doors, hot water heat, prism and art glass, terrazzo floors, marble exterior, birch finish. Work not started.





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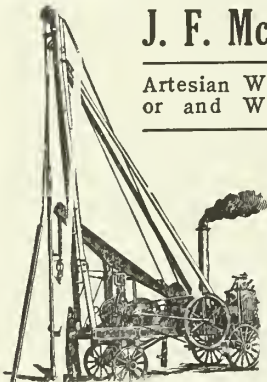
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## RESIDENCES

*Notes Arranged Alphabetically by States.*

**Alta., Medicine Hat**—Permit was issued for a \$3,000 bungalow for George Dixon, brick.

**Iowa, Charles City**—Plans are being drawn by J. O. Hughes & Co., contractors and architects, for a modern residence for W. J. McCulloch.

**Iowa, Council Bluffs**—G. A. T. Waddington received permit for erection of a residence, 1½-story.

**Iowa, Davenport**—Permit issued to contractor Alfred Vinall for Ed. Bishops' 2-story residence, frame and plaster, 602 E. 8th st., cost \$3,500, to contractor Hugo Wilckens for A. J. Danielson, a 1½-story frame dwelling; cost \$2,350.

**Iowa, Denison**—Geo. Naeve will erect a modern residence soon.

**Iowa, Rock Rapids**—Fire destroyed the residence of H. G. McMillan; loss about \$6,000; partially insured.

**Iowa, Steamboat Rock**—Burl Surls will erect a residence.

**Minn., Atwater**—Herbert Lundgren has let contract for erection of a modern dwelling; contractor F. P. Barrows.

**Minn., Clinton**—House of John Lindholm burned, insured for \$500.

**Minn., Duluth**—C. H. Bagley will erect a modern residence; stucco, red brick, tile, on Italian renaissance lines; plans by Frederick W. Perkins, architect, Chicago.

**Minn., Fairmont**—The residence of Aaron Wolford burned; loss about \$2,000.

**Minn., LeSueur Center**—Fire destroyed the farm house of George Rice; loss about \$2,000.

**Minn., Mankato**—Plans have been completed for a residence for Chas. K. Mayer; Pass & Son, architects, Mankato; bungalow style, stucco construction; cost \$5,000.

**Minn., New London**—John Thomson will build a house in the spring.

**Minn., New Prague**—James F. O'Keefe has contract for erection of a residence for Mrs. B. Casselius of Fish Lake.

**Minn., Owatonna**—Peter Stirens will build a residence.

**Minn., Round Lake**—E. M. Phillips has finished excavation for a new residence.

**Neb., Alexandria**—Geo. Steel is constructing a residence for Joel Steele, 5-room, 25x30. Broken Bow—W. T. Headley is planning to build a residence. Bridgeport—O. J. Life has commenced to build a house. Cambridge—(Cedar Ridge item)—J. C. Albrecht is building a modern cottage. Chambers—(Kola item)—Aug. Kruger is building a new house. Elgin—Carl Bergman is erecting a 2-story residence. Caldwell—L. J. Wyman has plans for a new modern dwelling.

**Neb., Alliance**—Mrs. Sam Albro will erect a modern residence, contract let to A. S. Mote; cost \$3,000.

**Minn., St. Hillaire**—Albert Larson will build a new residence.

**Mont., Roundup**—McCleary Bros. will soon erect two houses.

**Neb., Alliance**—Mrs. Sam Albro will erect a modern residence this summer; contract let to A. S. Mote, for \$3,000.

**Neb., Cody**—Albert Whipple is having a residence built. Caldwell—L. J. Wyman will build a house. Broken Bow—Mrs. E. F. McClure is building a large modern residence, 30x48; two new bungalows are being erected by contractor Jas. Osborn, modern. Wilber—Two residences are being built by Miss Emma Holtz. University Place—Dr. B. H. Cabbage will build a modern house. Tecumseh—J. S. Miner is erecting a dwelling house. Sidney—Mrs. O'Kane has let contract for new bungalow to E. J. Conners. Norfolk—Elmer Hight is planning erection of a new house. Leigh—Joe Dolesa will build a residence. Falls City—Quinton Lively will erect a 5-room bungalow. Crab Orchard—O. J. Werner is building a modern residence. College View—Work has started on the residence for L. E. Mumford. Beatrice—A modern bungalow will be erected by Ira Gould. Bridgeport—R. A. Riddle will build a residence. R. A. Riddle has contract also for residence for Jos. W. Neihus. University Place—S. S. Jones is building a cottage. Silver Creek—Ben McCormick will build a modern house. Sidney—H. Schroeder is planning to build a modern dwelling. Norfolk—J. J. Clements is preparing to build a dwelling. Gibbon—Chas. Bostock is erecting a modern residence. Havelock—A. P. Laux will soon erect a 5-room dwelling, contract let to Geo. Ackerman. Cortland—Fred DeVries is building a modern house. College View—J. H. Allen is excavating for a new residence. Havelock—W. E. Heatherington will erect a residence, cost \$2,000, modern throughout.

**Neb., Kearney**—H. B. Watson has begun erection of a modern residence.

**Neb., Neligh**—Hans Peterson contemplates erection of a modern dwelling, cost about \$3,000.

**Neb., Potter**—A 24x30 bungalow is being erected by Ray Babcock.

**Neb., Rushford**—J. W. Burrows is erecting a modern residence, 32x36, 2-story, concrete walls, heating plant, electric lights, concrete block construction.

**Neb., Wayne**—A. C. Dean will soon build a modern dwelling. Wauneta—James Miner is building a 4-room house. Valentine—Pat Fehmerling has contract for Henry Morris' new house. Silver Creek—Ben McCormick will erect a modern residence. Lauritz N. Jensen will soon commence erection of a dwelling. Loretto—A new house is being erected on the Housnette place. Leshara—Work will soon start on the new Lyzhof residence. Kearney—H. B. Watson has begun erection of a residence. Havelock—Wesley Kurtz will build a modern house. Chimney Rock—W. T. McKelvey is building two modern bungalows.

**N. D., Adams**—Farm home of David Callahan burned.

**N. D., Bathgate**—Emery Berard is planning erection of a new modern house.

**N. D., Lawton**—W. Bower will build a new residence; C. A. Dodge, contractor.

**Ont., Port Arthur**—The J. J. Carrick Co., Ltd., firm plans erection of a number of modern residences on its Mariday Park property.

**Ont., Ft. William**—The Mount McKay Building & Realty Co. are planning erection of a number of houses in the west end this year.

**S. D., Brookings**—Guy Fowler has commenced work on his residence.

**S. D., Sioux Falls**—Robert C. Warner is having plans drawn for a modern apartment house, 2-story and basement, hollow cement blocks, or frame with concrete exterior; cost about \$8,000.

**Wash., North Yakima**—Chester A. Congdon of Duluth, Minn., has started a summer home here; cost \$150,000; modern throughout.

**Wis., Colfax**—Residence of Wm. Hickathier burned; loss about \$1,000.

**Wis., Grantsburg**—Fire destroyed the home of Chas. Nelson.

**Wis., Hudson**—Work will commence on the new dwelling to be erected by E. S. Graves soon; John J. Lee, contractor.

**Wis., Marinette**—Fire destroyed the home of O. B. George, 1328 Elizabeth av., loss about \$1,000.

**Wis., Marrison**—M. C. Pattee will erect two bungalows.

**Wis., Rhinelander**—Danielson & Utke of Marinette and Peshtigo, building contractors, have been awarded contract for erection of buildings at Bungalow, new resort town near Tomahawk lake.

**Wis., Superior**—Permit issued to Wm. B. Banks for erection of a residence; cost about \$5,000.

## NEW FIRMS INCORPORATED

*Notes Arranged Alphabetically by States.*

**Iowa, Britt**—Crystal Creamery Co., Ed. Peterson and others. **Iowa, Clinton**—Iowa Furniture & Manufacturing Co., capital \$15,000; Jens Peterson.

**Iowa, Council Bluffs**—Karges Home Building Co., capital \$50,000; C. T. and E. A. Karges.

**Iowa, Des Moines**—Koss Construction Co., capital \$20,000; Geo. W. Koss.

**Iowa, Des Moines**—See-It-All Manufacturing Co., J. C. Mohler, A. M. Allison and Grant Morrow; capital, \$10,000.

**Iowa, Hull**—Farmers' Co-operative Creamery, capital \$20,000; Egbert Critters and others.

**Iowa, Muscatine**—Ficken Furniture & Rug Co., capital \$20,000; Geo. M. Wittich and others.

**Minn., Barnesville**—Barnesville Electric Light & Power Co., \$10,000; H. E. Hoyt.

**Minn., Duluth**—Victor Products Co., H. G. Clark and others; capital \$150,000.

**Minn., International Falls**—The Border Telephone Co., A. H. Hanson, president.

**Minn., Minneapolis**—Rogers Curtiss Co., E. A. Rogers, capital \$10,000.

**Minn., Minneapolis**—Farmers' Independent Gas Light Co., Frank Pfeifer, \$50,000.

**Minn., Minneapolis**—Yale Motor Car Co., N. J. Olson, president, \$20,000.

**Minn., Minneapolis**—E. A. Plamer Co., heating and plumbing; capital \$50,000.

**Minn., Minneapolis**—LeRoy Manufacturing Co., capital \$50,000; W. E. Barber.

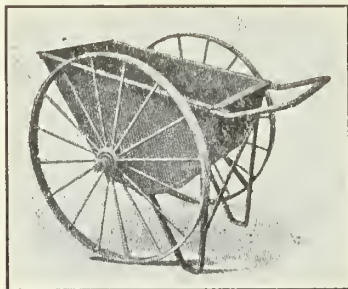
**Minn., Rochester**—Rochester Artificial Ice Co., Leon Van Toassel and others.

**Minn., South St. Paul**—Ideal Theater Co., capital \$50,000; J. J. Flynn, president.

**Minn., Virginia**—Sanitary Plumbing & Heating Co., A. Grande, president, \$10,000.

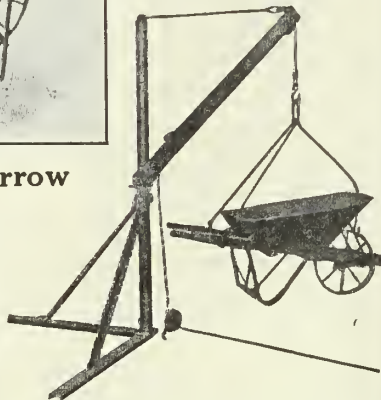


## CONTRACTORS' NECESSITIES



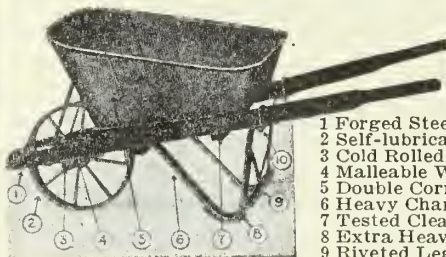
### Rayco Wheelbarrow Derrick

Easy to set up and move. Constructed the same as power derrick, but is operated by steam, gasoline or other power. Equipped with an automatic stop to prevent the boom from swinging. Weight of complete derrick, 225 pounds. Capacity 1,500 pounds.



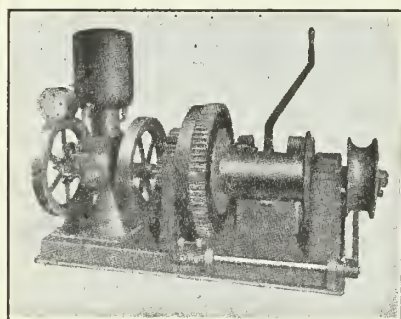
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Capacity 6 cubic feet, thin sloppy concrete; 7 feet dry material. No weak spots. A perfect cart. Weight, 215 lbs., 36-inch wheels.



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- 6 Heavy Channel Steel Legs
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- 8 Extra Heavy Leg Shoes
- 9 Riveted Leg Braces
- 10 Patented Handle Clamps

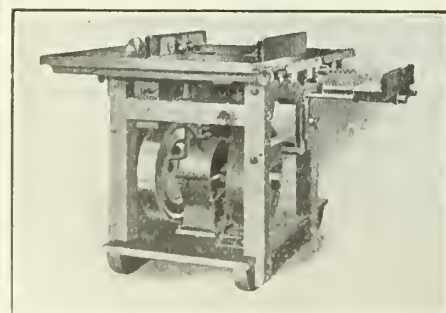
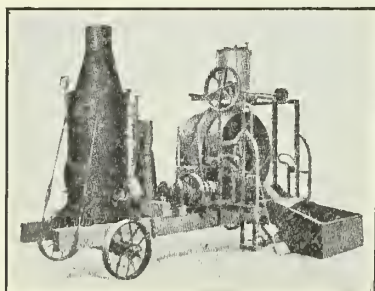


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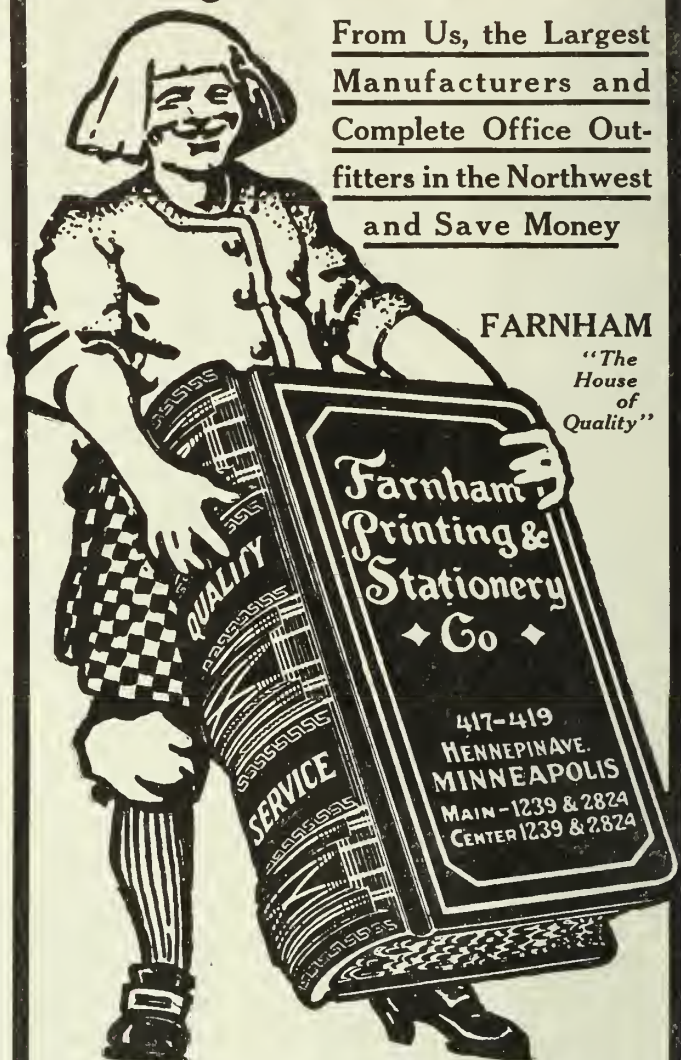
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The Improvement Bulletin



## STATE MUTUAL LIABILITY INSURANCE.

(Continued from page 10)

the act, at all times co-operating earnestly in the removal of all avoidable hazards which may tend to accidental injuries, decreasing thereby to a minimum the occurrence of casualties, will prove a sure and effective cost reducer.

In all the various countries of Europe, wherever workmen's compensation laws have been inaugurated, mutual associations of employers have universally been called into being, to solve the problems created thereunder. Practice has proven this to be the most economical and best plan. While such an act in this country is in the nature of an experiment, all fair-minded men concede that industrial conditions imposing 35,000 deaths annually from accidents and two million non-fatal accidents annually, demand not only a radical change in our methods to reduce this enormous waste of human life and energy, but also call for some feasible plan by means of which employers may be induced to insure for their men and not against them. Out of the \$100,000,000.00 paid by the employers in the eleven years (1894-1905) as premiums to liability insurance companies, only 43 per cent was awarded to injured workmen, and of this a large percentage never reached the injured parties, because of the costs and attorneys' fees, and it is safe to say that, under the old method of settling law suits, but one-eighth of the accidents reported resulted in the payment of indemnity and not more than 30 per cent of what employers have paid for insurance premiums ever reached injured workmen. True, investigations show that one-half or more of the accidents that occur, are due to the risks of the industry; that is, can be attributed neither to the employer or employee. Of the remaining one-half, the greater part are, in the eyes of the law, due to the negligence of the employee or his fellow employees. Considerably less than one-fourth can be traced to the negligence of the employer, in a sense that renders him legally liable. When he has all his defense, however, with the defense of assumption of risk, fellow servant and contributory negligence, repealed, this ratio will be materially increased.

One-half of the time of the courts has been taken up in settling controversies between employers and employees, and it is shown that the taxes going to the support of the courts engaged in these controversies, make up a greater sum than the total indemnities recovered by the injured workmen.

The workmen's compensation act has come to stay. It may not be all we desire, and it may in some particulars, be crude and too experimental or inadequate to meet the required conditions. Its cost will certainly prove too high, unless there be co-operation on the part of the employers to solve its problems by mutual insurance, and active co-operation of the employee, in whose interest the law was enacted.

Not, how can we evade, but, how can we best meet all liabilities imposed by this Minnesota compensation act, so that its benefits may be fully realized and the cost not prove too burdensome to the employer. These are the problems that the Mutual Compensation Liability Insurance Co. is called upon to solve.

The company which the speaker represents has come to stay, along with the compensation act, and is giving the employers of Michigan the benefit of its greatest possible usefulness. Through the work of its efficient inspection and medical department, with the co-operation of the employers and employees, the industrial accidents are being materially reduced, with a corresponding reduction in the matter of compensation payments and medical expense.

All appreciate the fact that many fine questions will arise for settlement in the matter of arriving at an equitable adjustment as to compensation payments on account of accidental injuries occurring under the compensation act. Just when actual service of an employee may begin, which would involve liability to the employer, is a question that must be met and settled. That accidents which occurred while on the way to work or before the employee actually enters within the premises of his employer, cannot be deemed industrial accidents, would scarcely require proof, and yet all kinds of indirect ways are devised by those who have been thus injured, to secure compensation, as well as medical and hospital care.

Quoting from Ferdinand Friedensburg, who recently retired from the position as President of the senate in the Imperial insurance office at Germany, will be noted one or two somewhat humorous examples of the extreme difficulty of deciding whether or not there lies against the employer, any obligation on account of certain accidental injuries to their employees:

"A farmer was injured on his way to church, but he claimed that he was going to pray for rain and that his journey had therefore, been in the interests of agriculture and that he should receive compensation for his accident."

"In another case, a peasant woman injured her finger while undressing her daughter, aged six years, which finger, on account of subsequent infection, had to be amputated. She declared that the child had been engaged in agriculture, since it had kept the geese; undressing the child, therefore, should be considered the same as unharnessing a draft animal, and should be counted an agricultural operation."

It will thus be noted what marvelous assertions are possible of being made by an injured party, although, of course, under the Minnesota act, such instances as the two here quoted, would not be possible, as employees in the agricultural industry, are exempted under the act. This is also true of Michigan. It is generally accepted, and we believe that certain court decisions, particularly in England, so hold, that the commencement of actual employment begins when the employee enters through the gate or actually upon the premises of the employer where his work is located, unless of course, the character of employment involves the performance of duties elsewhere.

The employer is required, under the act, to furnish employment which shall be safe; also to furnish and use safety devices and safe-guards, and to adopt and use methods and practices reasonably adequate to render such employment safe, and to protect the health, welfare and safety of his employees.

The law defines "safe" as meaning: "Such freedom from danger to the life, health or safety, as the nature of the employment will reasonably permit."

Fully appreciating that the real, effective, cost reducer on account of the expense involved under the compensation act, is the evidence of accidental injuries, the employers who have joined in organizing our mutual company for working out the compensation problems, have, in conjunction with various other large concerns, at present carrying their own risks under the act, promoted and organized a conference on "Accident Prevention and Relief." By this mutual co-operation on the part of the employers, a vigorous campaign of instruction has been inaugurated among the employees, forcibly impressing upon them the importance and absolute necessity of exercising constant precaution and care while operating or working about dangerous machinery, or while engaged in other hazardous work, all this being accomplished through various means and methods; the posting about the place of employment of danger signs, bulletin boards, and establishing regular schools for the instruction of superintendents and foremen, as to devices for the prevention of accidents, together with special inducements to such superintendents or foremen, who show the greatest efficiency in their respective department, in the prevention of accidents, all of which is resulting in a material reduction of serious casualties and consequent cost in compensation; to a degree hardly believed possible, under the old common law liability system, when the insurance companies were buying law suits instead of insuring the employees.

The Detroit safety conference established under our direction by bringing together the superintendents and foremen of the shops and factories, who have charge of the installation of accident prevention devices, and through the exchange and discussion of their various experiences in the matter of accidental injuries in their several lines of industry, is perfecting and adopting suitable and efficient rules for the prevention of accidents, thus securing tangible and practical results and eliminating the occurrence of injuries to an extent not possible of accomplishment through any other method.

## A MATTER OF EDUCATION.

There is a great awakening, not only on the part of employers, but also among the vast army of employees, upon the necessity of guarding against the needless occurrence of accidental injuries. There is no instance where the old saying, "An ounce of prevention is worth a pound of cure," is so forcibly appropriate as in the matter of accident prevention. It is up to the employer to make employment and places of employment as safe as they reasonably may be made, but it is equally as incumbent upon the employee to do his part, in avoidance of accidental casualties, by the exercise of due and diligent care, while in the performance of his work, and the employer must see to it that every possible step is taken to impress upon them this fact.

We must bear in mind that this "safety" question is purely one of education. We must get the men on the firing line personally interested. Call their attention to every case where there is a lesson to be drawn, no matter in what department or line of industry it occurred, and they will gradually refrain from taking chances.

The shibboleth of Michigan in dealing with workmen's compensation is "safety first," as the absence of hazards practically eliminates the occurrence of accidents.

(Continued on Page 47.)



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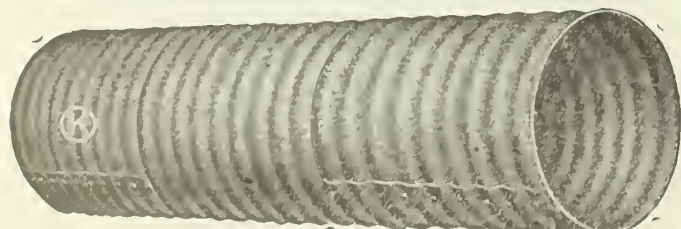
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## STATE MUTUAL LIABILITY INSURANCE.

(Continued from page 45)

Dr. Ferdinand Friedensburg, of the German system previously mentioned, after his retirement from the service, which extended over a period of practically twenty years, took occasion to somewhat severely criticize the German system; but until the retirement, and during the entire twenty years of said service, he was not heard to raise his voice in criticism of any part, or in any manner, or suggest any changes or reforms; although his utterances, involving such criticisms, are frequently quoted by the opponents of compensation insurance laws. And, yet, regardless of all that has been said, he summarizes his objections in the following:

"Workmen's insurance can be truly beneficial in its operations, only when free from all exaggeration and excess, and especially from conscious or unconscious subservience to the lower classes, it works as an institution of the state, as impartial as every other kindred institution."

It would be strange, indeed, if, with 1,867,000 accidents during a single year (1908), 662,321 injured, and an amount of \$39,500,000.00 paid in compensations for injuries, that there should not be cases of fraud, misrepresentation, malingering and, that "Justice was not over subordinated to mere kindly feeling."

The opinion and judgment of men who are obliged to pay the expense involved under the compensation acts, we much prefer in this proposition, and here quote a few extracts from prominent German employers:

"Today, everybody who views the situation without prejudice, must acknowledge and does acknowledge, that the work of the employers' associations in this field, is a great blessing; not only that we have secured higher efficiency in our industries, due to the increased efficiency of our workmen, as brought about by relieving them from worries and disturbances on account of sickness, superannuation and invalidity."

(Extract from letter, dated Oct. 7, 1910—Dr. Spiecker of Berlin.)

"In my opinion the accident insurance system prevailing in Germany at the present time, is not only good, but ideal. The system has stood the test, both from a humane standpoint and otherwise. To think of abolishing it would be absurd."

(From letter of Martin May, chairman, employers' association, leather industry, Germany.)

"In my opinion the system is extremely practical, especially because of the self-governing features of the employers' associations, by which all red tape is eliminated and the injured workmen are enabled to secure an income or pension without irksome formalities."

'Letter of Ernest Grumbt, chairman of woodworkers' association, Dresden.)

"The German manufacturers have adopted the present form of accident insurance and are well satisfied with it; so much so that they would not want to be without it. I can say without fear of being contradicted, that my fellow members will endorse the remarks made by me, if you will ask them their opinion."

(E. Blum, chairman board of directors, Northwestern Iron and Steel Association.)

These extracts from opinions on the German compensation system, where the insurance is furnished wholly on the mutual plan, are given to off-set the circulation of assertions from various sources, that the system is a failure and the employers are dissatisfied.

In a mutual company, for working out this compensation problem, the employer joins with other employers, their interests are mutual, they all have a like burden imposed, they have chafed under the hard settlements and endless litigation of the old form of liability insurance; they are tired of selling law suits and welcome a form of insurance for their men, instead of against them, if only they can be assured that the compensation under the act can be provided at a reasonable cost. By the accumulation of a guarantee fund, which will increase with the progress of the company, we will insure a greater measure of security than is now provided for by any other company. With the legal, insurance, medical, inspection and adjusting departments of a mutual company placed under the supervision and care of experienced men of unquestionable ability, the business will be conducted along the lines of greatest usefulness to employers who become associated in solving the problems involved under a compensation law.

That the cost is to be made a charge upon the product to be paid for by the consumer, has been turned into many a well rounded phrase requiring more than a beautiful theory, however well expounded, to be made reliable.

Insurance has equalized the burden placed upon the em-

ployer in this state, under said act; insurance is the only means of approximating the charge on the cost of production.

The workmen's compensation act is on the statute books to stay. Nowhere has such a law, once enacted, been repealed; it may have been amended, but its proper administration can only be secured, and will only be secured after an earnest effort to carry out the intent and purposes of the law. It will cost more to pay the compensation, medical and surgical aid involved under the law than to sell the law suits to liability companies, but if the greater cost of the compensation law, in a measure be equalized by greater economy of management and administration, the results will be much more satisfactory. But, we will not admit that it is true, that the actual expense under the act will, in a final analysis, prove to be the greater. The facts are that systematic and strenuous efforts will be inaugurated to remove all possible avoidable hazards, thus reducing to a minimum, accidental injuries, thereby conserving human life and energy, to a degree never before even dreamed of, and from a humane and economical standpoint, will appeal to all students of industrial and social problems.

A writer in the "London Chronicle" has versified his idea of certain effects of the British workmen's compensation act as follows:

## COMPENSATION.

Mary Ann, while cutting bread,  
Cut her finger. With elation  
Mary Ann went off to bed,  
Claiming compensation.

William Jones, while carting coke,  
Bruised his shin. With jubilation  
William cried, "A happy stroke,  
One year's compensation."

Charles, the waiter, dropped the cheese,  
Hurt his toe, retired from waiting.  
Six months' claim. At Brighton he's  
Now recuperating.

Jane, while cooking, trod and slid  
On some fat, and fell, obliquely  
Interesting invalid,  
Drawing two pounds weekly.

Jack, the hodman, scratched his wrist,  
Scratched it with a scaffold splinter--  
On the compensation list;  
Resting for the winter.

On a job at Maiden Vale,  
With his hammer. Green the plumber  
Hit the wrong nail (finger nail);  
Resting till next summer.

Bless the goodness and the grace  
And the thoughtful legislation  
That conferred upon our race,  
Workmen's compensation.

## NEW PATENTS.

The following patents were issued this week to Minnesota and Dakota inventors, as reported by Williamson & Merchant, patent attorney, 925-935 Metropolitan Life building, Minneapolis, Minn.: J. L. Bayley, Minneapolis, Minn., laundry-tub stand; Geo. Bendix, Vesta, Minn., strainer attachment; H. S. Berge, Minneapolis, Minn., anti-slipping device; C. Bloomstrom, Minneapolis, Minn., Coffee-canister; J. W. Clemmer, Fargo, N. D., door closing device; L. T. Collin, Secord, Minn., corn husking mechanism; J. D. Duffy, St. Cloud, Minn., nut lock; C. E. Ellis, Rochester, Minn., snow shoe; A. C. Engelstad, Kathryn, N. D., grain tester; M. Freed, Minneapolis, Minn., fire escape; Jesse Grover, Rockerville, S. D., rein ring; H. E. Hoines, Lake Park, Minn., motor vehicle; H. O. Kise, Hanley Falls, Minn., grain elevator; C. Krisen, Hutchinson, steering mechanism; C. A. Lammers, Stillwater, Minn., copyholder; R. L. LeWright, New Duluth, Minn., non-refillable bottle; Syver Loe, Minneapolis, Minn., voting machine; J. A. Lussier, Minneapolis, Minn., flax puller; G. Olson, International Falls, Minn., metallic tie fastener; F. F. Provan, Marion, N. D., Whip holder; Geo. Robbins, Minneapolis, Minn., sample case; H. J. Schwaitzer, Putney, S. D., grain door; G. A. Seiben, St. Paul, Minn., door pull; O. O. Skrudrud, Lanesboro, Minn., plane; W. F. Sprick, Stickney, S. D., ribbon device; E. G. Stuth, Minneapolis, Minn., clothes washing device; J. M. Sundean, Marshall, Minn., Shoe; F. L. Thull, Minneapolis, Minn., twine cutter; F. F. Turner, Little Falls, Minn., water heater; G. L. Wackerow, Mellette, S. D., corn husking machine.



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The remarkable growth of the steam and hot water heating business has been such as to bring into usage many "rule of thumb" or short method formulas in the computing of the necessary radiating surface for given spaces. Such methods can but result in defective and poor operating installations; and a company when interviewed recently, called attention to the ease with which many professional men and owners submit to this style of proportioning the required surface of various operations. Mr. Stevens particularly called attention to the necessity of applying established scientific formula in the laying out of heating apparatus. Believing that it can but redound to the advantage of the architect, owner and the successful and satisfactory operation of the plant to consult with established reputable heating engineers or heating specialists of record who are in position to extend a clean cut and comprehensive detailed lay-out and master specification, insuring to all concerned—with proper superintendence and compliance with the lay-out and specification—of a perfect operating heating plant, which can but return to the owner a high average in economy in its operation cost, while again actively demonstrating that the best is always the cheapest.

### PLUMBING NEWS.

Geo. Jacobs has opened a plumbing and heating establishment on N. Broadway, Rochester, Minn.

Brager & Rue of Northwood, Iowa, have purchased the Beedle Plumbing Co.'s establishment of Albert Lea, Minn. and have taken possession. Alvin Splide, who has been employed in the Northwood shop for some time, is a partner in the new concern. The firm will continue business in Northwood and will run both shops, dividing their help between the towns as needed. The local concern will now be known as Brager, Rue & Co., Mr. Splide having taken an interest in both shops.

J. W. Keifer of Minneapolis, who has been connected with the Virginia, Minn. Plumbing & Heating and Boylan companies for some time has opened the Mesaba Plumbing & Heating Co. He has started in business at 511½ Chestnut st. Mr. Keifer plans to employ a large force of men.

Jacob Scheck has been appointed plumbing inspector of Sheboygan at a salary of \$1,000 a year.

Johnson & Olson have opened a plumbing shop at Cass Lake, Minn.

Upon request of Dr. Harper of the state board of health Attorney General Walter Owen of Wisconsin has ruled that local plumbing licenses may be issued only to plumbers holding state licenses.

C. E. Test has opened a plumbing shop at Audubon, Iowa, after a number of years in the business at Salina, Kan.

Melesen & Braunel have opened a plumbing shop at Manitowoc, Wis., 304 N. 9th st.

H. J. Krueger, Fairview, Mont., has the heating contract for the Great Northern station there.

F. L. Haertl has bought out the C. W. Nelson plumbing business at 123 E. Wisconsin av., Neenah, Wis.

The Central Plumbing & Heating Co. has opened a shop at 18 2d st. N., Great Falls, Mont.

About three hundred members made the Madison meeting of the Wisconsin Master Plumbers' Association the largest on record. Archie Davis, secretary of the national, attended; also President W. W. Hughes of the Minnesota state organization, and L. P. Worrall, secretary. The officers for 1914 are: H. G. Helstrom of Eau Claire, president; vice president, B. J. Brewer, Milwaukee; secretary, Louis Sonntag, Sheboygan; treasurer, Chas. Cattenbury, Oconomowoc; chairman of board of directors, S. V. Hanley, Milwaukee; delegates to national convention, Joseph Brah, Milwaukee; Walter G. Hyland, Madison.

There was a good attendance at the annual meeting of the Minnesota Master Plumbers' Association at Duluth. W. W. Hughes of Minneapolis was elected president; C. H. Schimier, Hibbing, first vice president; W. C. Mullen, second vice president; D. R. Black, Duluth, treasurer; S. B. Harvey, 3003 Hennepin, Minneapolis, secretary. L. F. Nienaber, St. Paul, and John Stark, Duluth, delegates to the national convention.

H. G. Helstrom, proprietor of the Eau Claire Cornice & Heating Co., was elected president of the Wisconsin Association of Master Plumbers at the meeting in Madison. The convention was the largest ever held in the state.

T. F. Holligan has opened a plumbing shop at 519 2d st., Jamestown, N. D.

Andreas & Horn, who have conducted a plumbing and steamfitting shop in Bayfield, Wis., for several years, sold out to Earnest Nordine, who has been connected with the O. Englund hardware establishment.

Jos. Heiser and H. E. Mehan have opened a plumbing shop in Dickinson, N. D.

W. H. Kalsched, a Marshfield, Wis., plumber, has enlarged his headquarters by occupying the Henderson Pump Works building.

William Lenz, a plumber of Waupun, Wis., was killed instantly when the stairway, upon which he and a companion were descending carrying a heavy radiator, gave way, the radiator falling upon Lenz to the floor below.

H. A. Carlson and Robt. Gibb have established the new Rockford, N. D., Plumbing & Heating Co.

Boynton & Koch, plumbers, is a new firm at Osage, Iowa.

M. Sheehan has a new plumbing shop at 1027 7th st. N., Fargo, N. D.

C. W. Thayer has opened a plumbing shop at 83 High st., Oshkosh, Wis.

Albert Pomey has opened a plumbing shop in the Beecher building, Chamberlin, S. D.

V. E. Beaudry has engaged in the plumbing and heating business at New Rockford, N. D.

## RECENT LEGAL DECISIONS

### DECREE IN REVOLVING DOOR CASE.

The following announcement has been received:

We beg to inform you that our patents covering our "Panicproof" revolving doors have, after several sharply contested litigations, been sustained by the United States courts. The suits in which these patents were adjudicated were against the Louisville Trust Co., in the western district of Kentucky, for the use of a revolving door of "Panicproof" type, manufactured by the Atchison Revolving Door Co., and in the southern district of New York, against the Revolving Door & Fixture Co. An injunction was also issued against the American Revolving Door Co of Chicago, in the northern district of Illinois.

These patents were held to cover a revolving door the wings of which are held normally in radical position by self-releasing locking devices, and which are adapted to automatically collapse under excessive pressure.

As the word "Van Kannel" has become identified in the trade as indicating "revolving doors" of substantial construction, efficiency in operation, modern in appointments and of the highest value for the money invested, and as our doors are recognized to be honestly built of the very best material, and with the highest grade of workmanship, we look forward to the pleasure of securing continued patronage.

Respectfully yours,

Van Kannel Revolving Door Co.

Manufacturers of Van Kannel automatic collapsible panic proof revolving doors.

Decree granted Jan. 7, 1914 by U. S. District Court, Western District of Kentucky.

### POLK COUNTY, MINN.—LIEN DECISION.

Atlas Lumber Co., a corporation, respondents, vs. Hormidas Dupuis et al., defendants; the Workingman's Building and Loan Association of Crookston, Minn., appellant; Atlas Lumber Co., a corporation, respondent, vs. Hormidas Dupuis et al., defendants; Crookston Lumber Co., appellant.

Syllabus: First—in a mechanic's lien statement the premises to be charged were described as lot 1, block 2, of a certain addition, whereas the improvement was constructed on lot 2, block 1. Both lots were owned by the person to whom the materials were furnished, and together constituted the enclosure appurtenant to the dwelling house constructed. It is held that the mistake in the description did not affect the validity of the lien.

Second—A mechanic's lien statement followed the statute in all respects except that it set forth that the materials were supplied "for the following described improvements," and did not further state "for what improvements" the materials were supplied. It is held that this was an inaccuracy which, under revised laws 1905, section 3549, did not affect the lien.

Affirmed on appeal of defendant building association.  
Reversed on appeal of defendant lumber company.

—Bunn, J.



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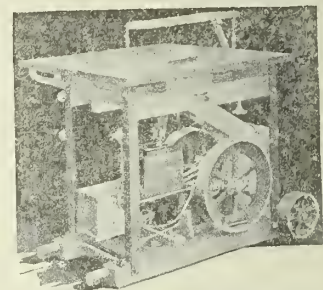
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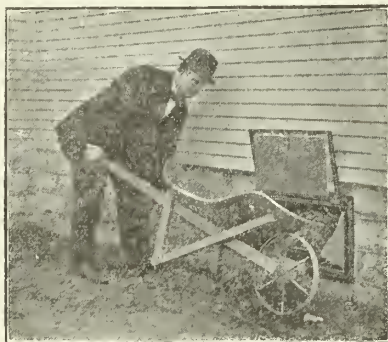
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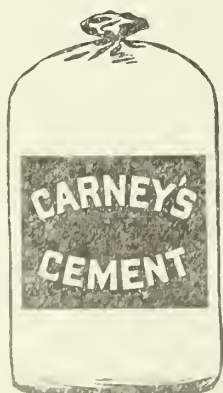
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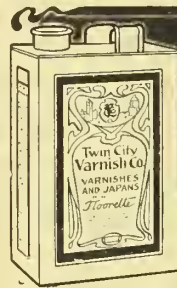
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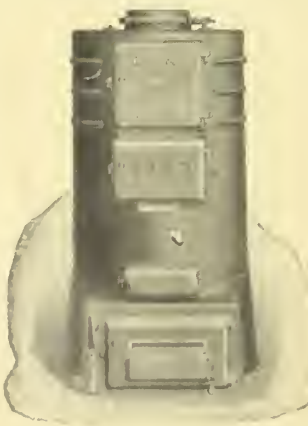
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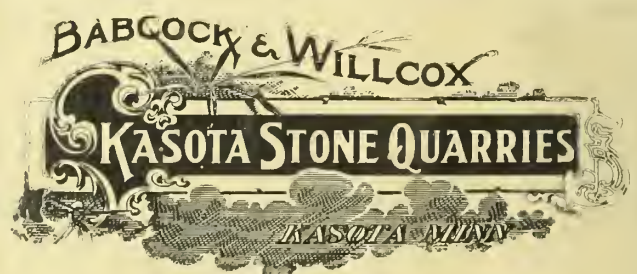


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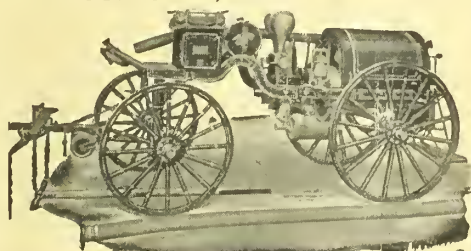
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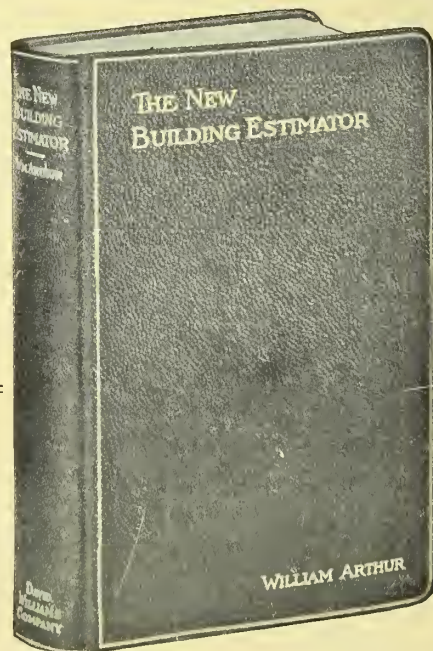
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:-: The Improvement Bulletin :-:



# The Improvement Bulletin

A Weekly Journal of Construction, Engineering and Architectural News Founded by Harold C. Chapin

Volume XLVII.

Minneapolis, Minn., March 7, 1914.

Number 14

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Builders' Iron Works Co., St. Paul.....	28	Krieger-Jamar Co., Duluth.....	51	Ricketsons Mineral Paint Works, Milwaukee.....	22
N. B. Cagley & Co., Minneapolis.....	14	La Crosse Steel Roofing Co., La Crosse.....	34	Republic Creosoting Co., Minneapolis.....	50
Canton Steel Ceiling Co., Minneapolis.....	34	Lagerquist, Gust., Minneapolis.....	32	Rogers & Co., Minneapolis.....	28
Carney's Cement Works (Carney's Cement).....	6	Landers-Morrison Christensen Co., Minneapolis		Rockville Granite Co., Rockville, Minn.....	36
Carr-Cullen Co., Minneapolis.....	6	Lansing Co., Lansing, Mich.....	40	Sauk Rapids Granite Co., Sauk Rapids, Minn.....	48
Central Supply Co., Minneapolis.....	52	Larkin, A. E., Minneapolis.....	50	Scaubner-Libby Co., St. Paul.....	36
Chaska Brick & Tile Co., Chaska.....	24	Lee & Hoff Mfg. Co., St. Paul.....	1	Selden Roofing & Mfg. Co., Minneapolis.....	34
Claussen Oscar, Engineer Co., St. Paul.....	14	Leslie Paper Co., Minneapolis.....	50	Shakopee Cement Lime Mfg. Co., St. Paul.....	26
Clinton Bridge Works, Clinton, Ia.....	14	Lillyblad, Gust., Red Wing.....	50	Sioux City Brick & Tile Co., Sioux City, Ia.....	24
Corrugated Bar Co., St. Paul.....	2	Lott & Co., K. F. Mpls. and St. Paul.....	46	Speakes Lime & Cement Co., Superior, Wis.....	50
W. F. Cowles, Minneapolis.....	14	Majestic Furnace & Foundry Co., Minneapolis	50	Standard Salt & Cement Co., Duluth.....	1
Crane Co., Minneapolis.....	40	Mantorville Stone Co., Mantorville, Minn.....	48	M. B. Stone, Minneapolis.....	14
Crane & Ordway Co., St. Paul.....	40	Mason City Brick & Tile Co., Mason City, Ia.....	24	St. Paul Foundry Co., St. Paul.....	28
Crookston Brick & Tile Co., Crookston.....	26	McCarthy J. F., Minneapolis.....	42	St. Paul Lime & Cement Co., St. Paul.....	1
Crown Iron Works Co., Minneapolis.....	52	McDonnell Boiler & Iron Works, Des Moines Ia	38	St. Paul, Roofing, Cornice & Ornament Co., St.	
Davenport Machine & Foundry Co., Davenport,		Metal Weather Strip Co., St. Paul Minneapolis	28	Paul.....	16
Ia.....	22	Midway Ornamental Iron Works, St. Paul.....	28	Sterling Electric Co., Minneapolis.....	42
Decker Hardware Co., St. Paul.....	6	Milwaukee Corrugating Co., Milwaukee.....	51	I. Stephenson Co., Wells, Mich.....	6
Demeules Bros., Minneapolis.....	28	Minneapolis Blue Printing Co.....	14	S. Swenson Artesian Well Co., Minneapolis.....	52
Des Moines Structural Steel Works, Des Moines Ia	2	Minneapolis Electric Equipment Co.....	42	O. F. Symons & Co., Minneapolis.....	32
Dickinson Fire & Pr. Brick Co., Dickinson, N.D	14	Minneapolis Steel & Machinery Co., Minneapolis	22	Thomson-Williams Co., Duluth.....	46
Dibold Safe & Lock Co., St. Paul.....	36	Minnesota Art Glass Co., Minneapolis.....	34	Thorp Fireproof Door Co., Minneapolis.....	42
Dix Machine Co., Stillwater, Minn.....	40	Minnesota Fama Stonewood Co., St. Paul-Min-		Turner, C. A. P., Minneapolis.....	30-50
Drake Marble & Tile Co., St. Paul.....	42	neapolis.....	28	Twin City Brick Co., St. Paul-Minneapolis.....	26
Duluth Corrugating & Roofing Co., Duluth.....	51	Minnesota Manufacturers Association.....	34	Twin City Tile & Marble Co., Minneapolis.....	24
Duluth Cut Stone Co., Duluth.....	51	Minnesota Roofing & Cornice Works, St. Paul.....	34	Twin City Varnish Co., St. Paul.....	52
Dunlop-Moore Co., Duluth.....	51	Minneapolis Gas Fixture Co., Minneapolis.....	38	Union Fibre Co., Winona, Minn.....	20
Edward Edinger Co., Cedar Rapids, Ia.....	42	A. Moorman & Co., St. Paul, Minn.....	32	Universal Portland Cement Co.....	20
Enterprise Iron Works, Albert Lea, Minn.....	51	W. K. Morrison & Co., Minneapolis.....	6	Van Kannel Revolving Door Co., St. Paul.....	26
Eureka Machine Cos, Lansing, Mich.....	32	National Fireproofing Co., Minneapolis-Chicago	26	Vogzentaaler Co., E. J., Dubuque, Ia.....	24
Farnham Printing & Stationery Co.....	44	Nat. Mfg. & Supply Co., Minneapolis.....	40	Warner Hardware Co., Minneapolis.....	6
Fidelity & Deposit Co., Minneapolis-St. Paul.....	34	National Window Shade Co., Minneapolis.....	26	Waterous Engine Co., St. Paul.....	1
Flint Brick Co., Des Moines, Ia.....	34	New Ulm Stone Co., New Ulm, Minn.....	48	Waterloo Register Co., Waterloo, Ia.....	40
Flour City Ornamental Iron Works.....	18	Northern Electrical Co., Minneapolis.....	42	Widell Co., Mankato, Minn.....	48
Fowler & Fay, Mankato-Minneapolis.....	50	Northern Insulating Co., St. Paul.....	36	Wilkins & Co., Charles, Minneapolis.....	38
Gardner Hardware Co., Minneapolis.....	6	Northern Theatre Supply Co., Minneapolis.....	32	Wisconsin Land & Lmbr Co., Hermansville, Mich	1
M. J. Grady Fixture Mfg., Minneapolis.....	38	North Star Varnish Co.....	52	Wishart & Co. R. S., Minneapolis.....	36
Gray, Fred L. Co., Minneapolis.....	18	Northwestern Bedding Co St. Paul, Minn.....	46	Wolff, L. P. St. Paul.....	24
Griffin & Boehme, St. Paul.....	36			Youngstown Steel & Iron Co., Youngstown, O.....	22



## NOTE

For street address of firms mentioned here, consult their advertisements which can readily be found by referring to the alphabetical list on page three.

### ARCHITECTURAL MODELING.

K. F. Lott & Co., Mpls. and St. Paul, Minn.

### ARCHITECTS' SUPPLIES.

Minneapolis Blue Prtg. Co., Mpls., Minn.  
Rogers & Co., Minneapolis, Minn.

### ASBESTOS AND MAGNESIA PRODUCTS.

H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
Krieger-Jamar Co., Duluth, Minn.

### ARTESIAN WELLS.

J. F. McCarthy, Minneapolis, Minn.  
S. Swenson Artesian Well Co., Minneapolis, Minn.

### BANKS.

Northwestern National Bk., Mpls., Minn.

### BANK AND STORE FIXTURES.

Flour City Ornamental Iron Works, Minneapolis, Minn.  
A. Moorman & Co., St. Paul, Minn.  
Northwestern Fixture & Cabinet Co., Minneapolis, Minn.

### BOILERS.

Andrews Heating Co., Minneapolis, Minn.  
Associate Mfrs. Supply Co., Mpls., Minn.  
Central Supply Co., Minneapolis, Minn.  
Crane & Ordway Co., St. Paul, Minn.  
Hasey Heating Co., Minneapolis, Minn.  
McDonnell Boiler & Iron Works, Des Moines, Iowa

### BONDS—SURETY.

Hood & Penney Co., Minneapolis, Minn.  
Wm. B. Joyce & Co., Mpls.-St. Paul, Minn.  
Fidelity & Deposit Co., Mpls.-St. Paul, Minn.

### BRASS GOODS.

Central Supply Co., Minneapolis, Minn.  
National Mfg. & Supply Co., Mpls., Minn.

### BRICK AND TILE.

American Brick & Tile Co., Mason City, Ia.  
Arnegard, Ole., Hillsboro, N. D.  
Barber Asphalt Paving Co., Des Moines, Ia.  
Belt Line Brick Co., Minneapolis, Minn.  
Boukind-Carlson Brick Co., Crookston, Minn.  
Chaska Brick & Tile Co., St. Paul, Minn.  
Crookston Brk. & Tile Co., Crookston, Minn.  
Dickinson Brick Co., Dickinson, N. D.  
Flint Brick Co., Des Moines, Ia.  
Hebron Fire & Pressed Brick Co., Hebron, N. D.  
Hydraulic Press Brk. Co., Minneapolis, Minn.  
Johnson, Jackson & Corning Co., Minneapolis and St. Paul, Minn.  
Mason City Brick & Tile Co., Mason City, Ia.  
National Fireproofing Co., Minneapolis, Minn., and Chicago, Ill.  
Northwestern Fireproofing Co., Mpls., Minn.  
A. C. Ochs Brick & Tile Co., Springfield, Minn.  
Red River Valley Brick Corporation, Grand Forks, N. D.  
Shakopee Cement Lime Co., St. Paul, Minn.  
Sioux City Brick & Tile Works, Sioux City, Ia.  
Standard Salt & Cement Co., Duluth, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.  
Twin City Brick Co., St. Paul-Mpls., Minn.

### BRIDGES.

American Bridge Co., Minneapolis, Minn.  
Corrugated Bar Co., St. Paul, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
N. W. Concrete Steel Co., Minneapolis, Minn.  
St. Paul Foundry Co., St. Paul, Minn.

### BUILDING MATERIAL.

Barber Asphalt Paving Co., Des Moines, Ia.  
Baxter Sash & Door Co., Duluth, Minn.  
N. B. Cagley & Co., Minneapolis, Minn.  
Carr-Cullen Co., Minneapolis, Minn.  
Dunlop-Moore Co., Duluth, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co., Mpls. and St. Paul, Minn.  
Landers-Morrison-Christensen Co., Minneapolis, Minn.  
Osgood & Blodgett Mfg. Co., St. Paul, Minn.  
Shakopee Cement Lime Co., St. Paul, Minn.  
The Northwestern Lime Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

### BUILDERS' SPECIALTIES.

Dunlop, Moore Co., Duluth, Minn.  
Paine & Nixon Co., Duluth, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Thomson-Williams Co., Duluth, Minn.  
Waterloo Register Co., Waterloo, Ia.

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### CEMENT.

Atlas Portland Cement Co., New York, N. Y., Chicago, Ill., and Minneapolis, Minn.  
Carney's Cement Works, Mankato, Minn.  
Fowler & Pay, Mpls. and Mankato, Minn.  
Landers-Morrison-Christensen Co., Minneapolis, Minn.  
N. W. Lime Co., Mpls. and St. Paul, Minn.  
Shakopee Cement Lime Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Speakes Lime & Cement Co., Superior, Wis.  
St. Paul Lime & Cement Co., St. Paul, Minn.

### CELLS, STEEL.

Avery Steel & Iron Co., Minneapolis, Minn.  
Diebold Safe & Lock Co., St. Paul, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.

### CEILINGS, STEEL.

Canton Steel Ceiling Co., Minneapolis, Minn.  
R. S. Wishart & Co., Minneapolis, Minn.

### CHAIRS, OPERA.

Northern Theatre Supply Co., Mpls., Minn.

### COAL CHUTES.

Enterprise Iron Works, Albert Lea, Minn.  
Gardner Hardware Co., Minneapolis, Minn.  
Majestic Furnace & Fdy. Co., Mpls., Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Waterloo Register Co., Waterloo, Ia.

### COLD STORAGE PLANTS.

Chas. A. Berger, Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

### COLUMN CLAMPS.

O. F. Symons & Co., Minneapolis, Minn.

### CONCRETE CONSTRUCTION.

Corrugated Bar Co., St. Paul, Minn.  
C. A. P. Turner, Minneapolis, Minn.

### CONCRETE MACHINERY.

Eureka Machine Co., Lansing, Mich.  
G. E. Ingersoll & Co., St. Paul, Minn.  
Koehring Machine Co., Minneapolis, Minn., and Milwaukee, Wis.  
Standard Salt & Cement Co., Duluth, Minn.  
Jaeger Machine Co., Columbus, Ohio  
Raymer Hardware Co., St. Paul, Minn.  
Lansing Co., Lansing, Mich.

### CONCRETE REINFORCING BARS.

Inland Steel Co., St. Paul, Minn.  
Corrugated Bar Co., St. Paul, Minn.  
N. W. Concrete Steel Co., Minneapolis, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.

### CORNICES.

Griffin & Boehme, St. Paul, Minn.  
F. V. Haverland, Minneapolis, Minn.  
Minnesota Roofing & Cornice Works, St. Paul, Minn.  
R. S. Wishart & Co., Minneapolis, Minn.  
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.

### CORRUGATED IRON, ETC.

Corrugated Bar Co., St. Paul, Minn.

### CONCRETE REINFORCING.

Inland Steel Co., St. Paul, Minn.  
N. W. Concrete Steel Co., Minneapolis, Minn.

### CONTRACTORS.

N. B. Cagley & Co., Minneapolis, Minn.

### CONTRACTORS' SUPPLIES AND MACHINERY.

Decker Hardware Co., St. Paul, Minn.  
O. F. Symons & Co., Minneapolis, Minn.

### CULVERTS.

Biesanz Stone Co., Winona, Minn.  
Klauer Mfg. Co., Dubuque, Ia.  
Minneapolis Steel & Mach. Co., Mpls., Minn.

### CRUSHED STONE.

Fowler & Pay, Mankato, Minn.  
Kettle River Co., Minneapolis, Minn.  
Klauer Mfg. Co., Dubuque, Ia.  
Mantorville Stone Co., Mantorville, Minn.  
New Ulm Stone Co., New Ulm, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Widell Co., Mankato, Minn.

### CREOSOTING.

Republic Creosoting Co., A. E. Larkin, Minneapolis, Minn.

### DEADENING MATERIAL.

H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Union Fibre Co., Winona, Minn.

### DECORATIONS.

Odin J. Oyen, La Crosse, Wis.

### DITCHING MACHINES.

Dix Machine Co., Stillwater, Minn.

### ELECTRICAL ENGINEERING.

Minneapolis Electric Equipment Co., Minneapolis, Minn.  
Northern Electrical Co., Minneapolis, Minn.

## RATES

For three lines in directory, giving name, address and goods handled, \$25 for 1 year, 52 times.

### SAMPLE AD

Great Northern Brick Company  
Pressed Brick and Drain Tile  
Minneapolis, - - - Minn.

### ELECTRIC MOTORS AND SUPPLIES

H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
Minneapolis Electric Equipment Co., Minneapolis, Minn.  
Sterling Electric Co., Minneapolis, Minn.

### ELECTRIC SPECIALTIES

Minneapolis Electric Equipment Co., Minneapolis, Minn.

### ELEVATORS AND ENCLOSURES.

Kimball Bros. Co., Council Bluffs, Ia.  
Gust Lagerquist, Minneapolis, Minn.  
Lee & Hoff Mfg. Co., St. Paul, Minn.

### ELEVATOR CABS.

N. W. Fixture & Cabinet Co., Mpls., Minn.

### ENGINEERS—CONTRACTORS.

Power Engineering Co., Minneapolis, Minn.

### ENGINEERS.

Oscar Claussen Engineering Co., St. Paul, Minn.  
Charles L. Pillsbury, Minneapolis, Minn.  
L. P. Wolf, St. Paul, Minn.  
M. B. Stone, Minneapolis, Minn.  
W. P. Cowles, Minneapolis, Minn.

### FIRE ESCAPES.

Des Moines Structural Steel Works, Des Moines, Ia.  
Davenport Mach. & Fdy. Co., Davenport, Ia.  
Minneapolis Steel & Mach. Co., Mpls., Minn.

### FIREPROOF DOORS.

Thorp Fireproof Door Co., Minneapolis, Minn.  
R. S. Wishart & Co., Minneapolis, Minn.

### FLUE LINING.

Northwestern Lime Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.

### FIRE PROTECTION APPARATUS.

Waterous Engine Works Co., St. Paul, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

### FIREPROOFING DOORS AND SHUTTERS.

Selden Roofing & Manufacturing Co., Minneapolis, Minn.  
R. S. Wishart & Co., Minneapolis, Minn.

### FLOORING.

American Torgomont Flooring Co., Minneapolis and (Midway) St. Paul, Minn.  
Fama Stonewood Co., St. Paul, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co., Mpls. and St. Paul, Minn.  
Osgood & Blodgett Mfg. Co., St. Paul, Minn.  
Ranson, Birtram W., Minneapolis, Minn.  
I. Stephenson Co., Wells, Mich.  
Thomson-Williams Co., Duluth, Minn.

### FURRING.

Corrugated Bar Co., St. Paul, Minn.

### GAS AND ELECTRICAL FIXTURES.

Herber Chandeller Co., Minneapolis, Minn.  
Mpls. Electric Equipment Co., Mpls., Minn.  
Minneapolis Gas Fixture Co., Mpls., Minn.  
Sterling Electric Co., Minneapolis, Minn.

### GLASS.

American Luxfer Prism Co., Chicago, Ill.  
Minnesota Art Glass Co., St. Paul, Minn.  
Pittsburgh Plate Glass Co., Minneapolis and St. Paul, Minn.

### GRANITE.

Rockville Granite Co., Rockville, Minn.

### GRAVITY CARRIER.

Minnesota Manufacturers' Association, North St. Paul, Minn.

### HARDWARE TRIMMINGS.

Decker Hardware Co., St. Paul, Minn.  
Gardner Hardware Co., Minneapolis, Minn.  
Raymer Hardware Co., St. Paul, Minn.  
Waterous Engine Co., St. Paul, Minn.  
Warner Hardware Co., Minneapolis, Minn.

### HEAT REGULATORS.

Andrews Heating Co., Minneapolis, Minn.

### HEATING AND VENTILATING.

Andrews Heating Co., Minneapolis, Minn.  
Associate Mfrs. Supply Co., Minneapolis, Minn.  
Hasey Heating Co., Minneapolis, Minn.  
H. Kelly & Co., Minneapolis, Minn.  
National Mfg. & Supply Co., Mpls., Minn.  
Charles Wilkins & Co., Minneapolis, Minn.

### HOSE.

Gardner Hardware Co., Minneapolis, Minn.  
W. K. Morison & Co., Minneapolis, Minn.

### HOTELS.

Radisson Hotel, Minneapolis, Minn.



## NOTE

For street address of firms mentioned here, consult their advertisements, which can readily be found by referring to the alphabetical list on page three.

### INSULATING MATERIAL.

H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co.....St. Paul, Minn.  
Union Fibre Co.....Winona, Minn.

### INSURANCE.

Fidelity & Deposit Co.....  
..Minneapolis and St. Paul, Minn.  
Fred L. Gray Co.....Minneapolis, Minn.  
Hood & Penney Co.....Minneapolis, Minn.  
W. B. Joyce Co., Mpls. and St. Paul, Minn.  
Minneapolis Insurance Agcy.....Mpls., Minn.

### IRON AND STEEL WORK.

Avery Steel & Iron Co.....Minneapolis, Minn.  
Clinton Bridge Works.....Clinton, Ia.  
Crown Iron Works.....Minneapolis, Minn.  
Davenport Machine & Foundry Co.....  
..Davenport, Ia.  
Des Moines Structural Steel Works.....  
..Des Moines, Ia.  
Inland Steel Co.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
N. W. Concrete Steel Co., Minneapolis, Minn.  
Oberg & Stainer.....Minneapolis, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.  
St. Paul Foundry Co.....St. Paul, Minn.  
E. J. Vogenthaler Co.....Dubuque, Ia.  
Youngstown Iron & Steel Co.....  
..Minneapolis, Minn.

### JOIST HANGERS.

Avery Steel & Iron Co.....Minneapolis, Minn.  
Davenport Machine & Foundry Co.....  
..Davenport, Ia.  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
Northwestern Concrete Steel Co.....

### LANDSCAPE ARCHITECTS.

B. Terrell Hoyt.....Minneapolis, Minn.

### LIME.

Fowler & Pay.....Mpls. and Mankato, Minn.  
Landers-Morrison-Christenson Co.....  
..Minneapolis, Minn.  
Gust Lillyblad.....Red Wing, Minn.  
Shakopee Cement Lime Manufacturing Co.....  
..St. Paul, Minn.  
Speakes Lime & Cement Co., Superior, Wis.  
St. Paul Lime & Cement Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
The Northwestern Lime Co., St. Paul, Minn.

### MANTELS—GRATES.

Drake Marble & Tile Co.....  
..Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
N. W. Marble & Tile Co., Minneapolis, Minn.  
Twin City Tile & Marble Co., Mpls., Minn.

### MARBLE, TILING, MOSAIC.

Drake Marble & Tile Co.....  
..Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
N. W. Marble & Tile Co., Minneapolis, Minn.  
Thomson-Williams Co.....Duluth, Minn.  
Twin City Tile & Marble Co., Mpls., Minn.

### METAL SHINGLES.

Milwaukee Corrugating Co., Milwaukee, Wis.

### METAL AND WIRE LATH.

Corrugated Bar Co.....St. Paul, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.  
Johnson, Jackson & Corning Co.....  
..Minneapolis and St. Paul, Minn.  
Northwestern Lime Co.....St. Paul, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.  
Thomson-Williams Co.....Duluth, Minn.

### MILLWORK.

Baxter Sash & Door Co.....Duluth, Minn.  
Osgood-Blodgett Mfg. Co.....St. Paul, Minn.

### MUNICIPAL CASTINGS.

Davenport Mach. & Fdy. Co., Davenport, Ia.

### OFFICE FURNITURE.

Farnham Printing & Sta. Co., Mpls., Minn.

### ORNAMENTAL IRON AND WIRE.

Builders Iron Works Co.....  
..Minneapolis and St. Paul, Minn.  
Davenport Machine & Foundry Co.....  
..Davenport, Ia.  
Demueles Bros.....Minneapolis, Minn.  
Flour City Ornamental Iron Works.....  
..Minneapolis, Minn.  
Midway Ornamental Iron Works.....  
..St. Paul, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
St. Paul Foundry Co.....St. Paul, Minn.

### PAINTS, FILLERS, ETC.

Gardner Hardware Co.....Minneapolis, Minn.  
Ricketson Mineral Paint Works.....  
..Milwaukee, Wis.

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### PACKINGS AND HOSE.

H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.

### PAVEMENT.

Barber Asphalt Paving Co., Des Moines, Ia.  
Barrett Mfg. Co.....New York, N. Y.

### PICTURE MACHINES.

Northern Theatre Supply Co., Mpls., Minn.

### PIPE AND BOILER COVERING.

H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.

### PLASTER—WALL.

H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
Plymouth Gypsum Co., Fort Dodge, Ia.  
Shakopee Cement Lime Co., St. Paul, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

### PLASTERING—ORNAMENTAL.

Brioschi-Minuti Co.....St. Paul, Minn.

### PLASTIC ORNAMENTS.

Brioschi-Minuti Co.....St. Paul, Minn.  
K. F. Lott & Co., Mpls. and St. Paul, Minn.

### PLUMBING AND GAS FITTING

Charles Wilkins & Co., Minneapolis, Minn.

### PRINTING.

Farnham Printing Co., Minneapolis, Minn.

### PRISMS.

American Luxfer Prism Co., Chicago, Ill.

### PLUMBING AND HEATING JOBBERS.

#### POWER PLANTS.

Associate Mfrs. Supply Co., Mpls., Minn.  
Central Supply Co., Minneapolis, Minn.  
National Mfg. & Supply Co., Mpls., Minn.

### RADIATORS.

Associate Mfrs. Supply Co., Mpls., Minn.  
Central Supply Co., Minneapolis, Minn.

### REVOLVING DOORS.

Van Kannel Revolving Door Co.....  
..St. Paul, Minn.

### ROOFING GRAVEL AND ASPHALT.

Griffin & Boehme.....St. Paul, Minn.  
H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
Krieger-Jamar Co.....Duluth, Minn.  
Minnesota Roofing & Cornice Works.....  
..St. Paul, Minn.  
Northwestern Lime Co., St. Paul, Minn.  
Scribner-Libby Co., St. Paul, Minn.  
Selden Roofing & Manufacturing Co.....  
..Minneapolis, Minn.  
Thomson-Williams Co., Duluth, Minn.  
R. S. Wishart & Co., Minneapolis, Minn.

### ROOFING—METAL.

Badger Steel Roofing & Corrugating Co.,  
..La Crosse, Wis.  
Duluth Corrugating & Roofing Co.,  
..Duluth, Minn.  
Gardner Hardware Co., Minneapolis, Minn.  
La Crosse Steel Roofing & Corrugating Co.,  
..St. Paul, Minn.  
St. Paul Roofing, Cornice & Ornamental  
Co., St. Paul, Minn.  
R. S. Wishart & Co., Minneapolis, Minn.

### ROOFING MATERIAL.

Barrett Mfg. Co., New York, N. Y.  
Corrugated Bar Co., St. Paul, Minn.  
John Leslie Paper Co., Minneapolis, Minn.  
H. W. Johns-Manville Co.,  
..Minneapolis, Minn., and Milwaukee, Wis.  
McClellan Paper Co., Minneapolis, Minn.

### ROOFING AND SIDING—IRON AND STEEL.

Gardner Hardware Co., Minneapolis, Minn.  
Inland Steel Co., St. Paul, Minn.

### RUBBER SHINGLES.

Standard Salt & Cement Co., Duluth, Minn.

### RUST-RESISTING IRON SHEETS.

Inland Steel Co., St. Paul, Minn.

### SAFES.

Diebold Safe & Lock Co., St. Paul, Minn.  
Heilig & Elliott Co., Minneapolis, Minn.  
Herring-Hall-Marvin Safe Co.

### SAND AND GRAVEL.

Standard Salt & Cement Co., Duluth, Minn.

### SEWER PIPE AND DRAIN TILE.

Ingalls Stone Co., Bedford, Ind.  
Iowa Sewer Pipe & Tile Co., Des Moines, Ia.  
Northwestern Lime Co., St. Paul, Minn.  
Plymouth Clay Products Co., Fort Dodge, Ia.  
Red Wing Sewer Pipe Co., Red Wing, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

## REMEMBER

Announcements on this page are read by architects, contractors, and the building trade generally, all over the Northwest and produce excellent results.

### SHEETS—IRON AND STEEL.

Gardner Hardware Co., Minneapolis, Minn.  
Inland Steel Co., St. Paul, Minn.

### SIDEWALK LIGHTS.

American Luxfer Prism Co., Chicago, Ill.  
K. F. Lott & Co.,  
..St. Paul and Minneapolis, Minn.

### SLATE BLACKBOARDS.

Twin City Tile & Marble Co.,  
..Minneapolis, Minn.

### SKYLIGHTS.

Krieger-Jamar Co., Duluth, Minn.  
St. Paul Roofing, Cornice & Ornament Co.,  
..St. Paul, Minn.  
R. S. Wishart & Co., Minneapolis, Minn.

### STEEL—BARS.

Inland Steel Co., St. Paul, Minn.  
Twin City Tile & Marble Co., Mpls., Minn.

### STONE.

Babcock & Wilcox.....Kasota, Minn.  
Biesanz Stone Co., Winona, Minn.  
Also Building Material, Gravel for Roof-  
ing, Sand and Gravel.  
Breen Stone Co., Kasota, Minn.  
Edw. Edinger Co., Cedar Rapids, Ia.  
Ingalls Stone Co., Bedford, Ind.  
Kettle River Co., Minneapolis, Minn.  
Duluth Cut Stone Co., Duluth, Minn.  
Mantorville Stone Co., Mantorville, Minn.  
New Ulm Stone Co., New Ulm, Minn.  
Pioneer Granite Co., St. Cloud, Minn.  
Sauk Rapids Granite Co.,  
..Sauk Rapids, Minn.  
Wm. Penn Stone Co., Minneapolis, Minn.  
The Widell Co., Mankato, Minn.

STRUCTURAL SECTIONS AND SHEETS.  
Inland Steel Co., St. Paul, Minn.

### TANKS—STEEL.

American Bridge Co., Minneapolis, Minn.  
Central Supply Co., Minneapolis, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.

### TELESCOPIC HOISTS.

Avery Supply Co., Minneapolis, Minn.

### TERRA COTTA.

Johnson, Jackson & Corning.....  
..Minneapolis and St. Paul, Minn.  
K. F. Lott & Co.,  
..Minneapolis and St. Paul, Minn.  
Ranson, Birtram W., Minneapolis, Minn.

### VARNISHES.

Gardner Hardware Co., Minneapolis, Minn.  
North Star Varnish Co., Minneapolis, Minn.  
Twin City Varnish Co., St. Paul, Minn.

### VALVES.

Central Supply Co., Minneapolis, Minn.  
Crane Co., Minneapolis, Minn.  
Crane & Ordway Co., St. Paul, Minn.

### VAULTS.

Diebold Safe & Lock Co., St. Paul, Minn.  
Heilig & Elliott Co., Minneapolis, Minn.  
Herring-Hall-Marvin Safe Co.  
Also Vault Doors, Vault Furnishings and  
Filling Equipment.

### VENTILATING SYSTEMS.

Hackney Ventilating Co., Minneapolis, Minn.  
Charles Wilkins & Co., Minneapolis, Minn.

### WALL BEDS.

Northwestern Bedding Co., St. Paul, Minn.

### WATERPROOFING.

Gardner Hardware Co., Minneapolis, Minn.  
H. W. Johns-Manville Co.,  
..Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co., St. Paul, Minn.

### WATER TOWERS, STEEL.

Minneapolis Steel & Machinery Co.,  
..Minneapolis, Minn.

WINDOW SCREENS—METAL FRAME.  
O. F. Symons & Co., Minneapolis, Minn.

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National Window Shade Co.,  
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Builders Iron Works.....  
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Demeules Bros., Minneapolis, Minn.  
Midway Ornamental Iron Works.....  
..St. Paul, Minn.

### WEATHER STRIPS.

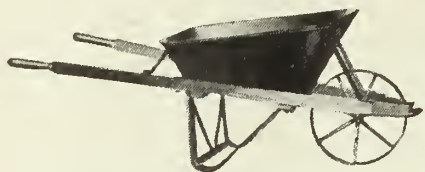
Metal Weather Strip Co., St. Paul, Minn.  
O. F. Symons & Co., Minneapolis, Minn.

### WOODWORKING.

G. E. Ingersoll.....St. Paul, Minn.



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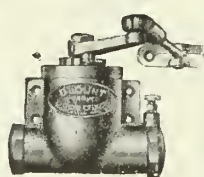
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### W. K. MORISON & CO.

247-249 NICOLLET AVENUE

MINNEAPOLIS, MINN

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**BLOUNT  
DOOR  
CHECKS**

**SEND THIS COUPON**  
with your order and we will allow you  
**A DISCOUNT OF 10% AND**  
**PREPAY FREIGHT 200 MILES**

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|--|--------|
| 1. For Screen Doors.....                               | \$3.25 |
| 2. For light inside Doors.....                         | 4.25   |
| 3. For heavy inside Doors not<br>over 2½x7 feet.....   | 5.00   |
| 4. For light outside or heavy<br>inside Doors .....    | 6.00   |
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**GARDNER HARDWARE CO.**

304-306 HENNEPIN AVENUE

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## IDEAL FLOORING

Maple --- Birch --- Beech



**I. STEPHENSON CO, Trustees**  
WELLS, - - - MICHIGAN

## PLYMOUTH CLAY PRODUCTS COMPANY

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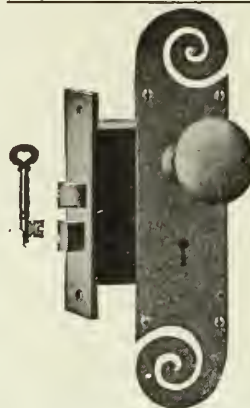
*Large Drain Tile*

*Sewer Pipe*

*Well Pipe*

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## WARREN DESIGN COLONIAL

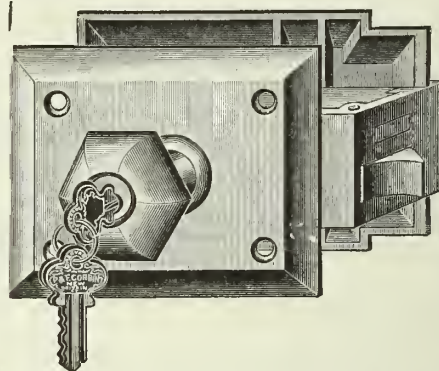
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hardware provides the  
distinction and worth  
that lies in artistic de-  
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manship.

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Builders' Hard-  
ware and Con-  
tractors' Supplies  
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**ADAM DECKER HARDWARE COMPANY**

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Face Brick      Enameled Brick  
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216-17 Lumber Exchange  
MINNEAPOLIS, MINN.

633 Ryan Building  
ST. PAUL, MINN.



# The IMPROVEMENT BULLETIN

VOLUME XLVII.

SATURDAY, MARCH 7, 1914

NUMBER 14

## EDITORIAL

O. L. COLBURN, Editor

### ARCHITECTURE FOR THE SMALL CITY.

While Minnesota, through the state art society is aiming at improving architecture in the villages, the east is looking after architectural improvement in small cities. The exhibition of the Architectural League in New York includes a selection by a committee of the league, of typical buildings, simple and American, for a wide variety of uses.

There is a city hall, a library, a postoffice, an auditorium, school buildings, banks, residences, stores, factories, a club house, an inn, a railroad station, a garage and office buildings. For the library, that at Great Barrington, by Blanchard & Barnes, is chosen as a suitable ideal, and the postoffice illustrated is the one at Beverly, Mass., by Stem & Fellheimer. Guy Lowell's Piping Rock country club house is shown and houses of Hays & Hoadley, at Englewood, and Electus Litchfield at Jamaica. The Ford Motor Co.'s building at Detroit, Mich., which admits of plenty of light without any sacrifice of strength in construction, is one of the ideal factory buildings shown and the school building is the Groton school by Peabody & Stearns. The Chickering building, Boston, and stores at Spring Lake and Chautauqua illustrate what can be done in the way of store buildings. The village inn selected is the Colony club of New York. The town hall is the one at New Canaan, Conn., designed by E. A. Josselyn. There is a real estate office, that of T. G. Washburn, Boston, and for an auditorium, the one at Vassar is selected. Joy Wheeler Dow's Unitarian meeting house at Summit, N. J., is among the church structures shown. All these buildings are executed in about the same materials and, though in harmony, are not monotonous. Nor are they out of proportion with one another in size. A sketch plan for a small city, giving the location and grouping of the buildings shown, in relation to parks, thoroughfares, accompanies the exhibit.

The extent to which mural painting is being used in private houses is shown by the work for this purpose of Arthur Crisp, Maynard Dixon, Robert K. Ryland, Helen Maitland Armstrong and others. Kenyon Cox's designs for mosaic for the Wisconsin state capitol are shown.

In the sculpture section Karl Bitters' statue of Thomas Lowry is shown. It is a portrait statue and shows its subject standing easily and with dignity, tall hat and gloves in the left hand and overcoat thrown over the left arm, a "successful and simple portrayal of a person in modern garments."

Douglas Volks' fur trading decorating for the Des Moines, Iowa, court house are shown.

### FIREPROOF ROOFING.

A very important step has been taken by the Chicago board of underwriters in offering a discount of 10 per cent on dwelling house premiums where fireproof roofings are used. There can be no doubt that this is a matter of far-reaching importance and that it marks a new era in residence roof construction in Chicago. The house owner who is told that a fire-resisting roof means decreased cost of his insurance will be powerfully influenced to specify one of the materials regarded as fireproof, and he will be equally averse to using any other material. The Chicago board has struck a powerful blow against roofing materials of all kinds that cannot pass the required tests and at the same time has given a big impetus to the sale of the more substantial materials.

This ruling of the board it must be remembered, has no reference to the board's previous action in approving certain roofing materials, a list of which has been published in the American Roofer. The only materials now considered as entitling the insurant to a lower rate are metal, slate, tile, concrete and asphalt shingles. In short, the materials must be positively fire-resisting if not actually fireproof. In effect it is a big lift for the slate, tile and metal roof. The

effect of the new ruling will be seen very shortly in a noticeable increase in number of these roofs in Chicago and vicinity.

The entire tendency of building regulations is toward fire protection. In a large section of the Chicago suburbs frame construction has been entirely prohibited. Not only is this the law but it is backed by public sentiment, and as people become educated to a better appreciation of the fireproof roof the roofing business will be gradually revolutionized.

### AN UNDERTAKER GETS A CONTRACT.

Taking advantage of the free-for-all opportunity of the prevailing practice of open competition in bidding for general contracts a funeral director bid on a \$20,000 paving job and got it. He was "low," very "low." Attention was first directed to his bid on account of its extreme lowness. It looked suspicious and the city engineer was so doubtful that he suggested throwing it out. But the mayor was for economy, even if somebody was apparently going to lose. The certified check was there and the bond signed by responsible men. There was a good deal said, a report about the letting says, on the noble purpose of saving the people's money and the high duty of public servants to take advantage of such opportunities of economy. Then the contract was awarded and the fact was revealed that the bidder was an undertaker. It appears this citizen, finding that his fellow citizens were not coming to him fast enough in the cadaverous state to make business good, decided to use some of his spare time in a venturesome bid for the paving contract. His bondsmen, says the report of the incident, were his relatives. Artemus Ward was willing to take the contract to put down the Rebellion, even if it sacrificed all his wife's relatives. In this case the undertaker-contractor soon found himself in need of capital which, John Stuart Mill says, is maintenance of labor while the work is going on to the point of getting the pay for the job. The contract was given up and the street left impassable. The bondsmen were sued. After a while the work will be re-let, probably with a tense silence instead of eloquence over the duty of public officials to protect the people's interests and save their money.

It occurs often to observers of bidding and letting of general contracts, that more or less irresponsible, desperately low bidders seem never to have trouble furnishing a bond. That is one of the mysteries of the contracting business. And it occurs also, to the observing, that in contracting, as in the practice of architecture in some sections of the country, good work done in many instances and good reputation from long experienced and right results in business, are of no avail against a difference of a few dollars. There is a difference, as Engineering and Contracting says, between the lowest bidder and the lowest responsible bidder. "Due consideration," says this journal, "is not always given to this fact. In many cases the only thing that counts with the officials of cities or towns is the amount of the bid. The low man gets the contract, and if his figures are exceptionally low the members of the council congratulate themselves on the saving to the municipality. The ability of the contractor to prosecute the work successfully and to complete it within contract time is not considered. It is sufficient to know that he was several dollars lower than his nearest competitor. If he could not make good, why then his bondsmen would. \* \* \* \* If some municipal officials would give less thought to the possible saving of a few dollars in the contract price and would devote more consideration to ascertaining if the bidder had sufficient capital, experience, ability and plant to carry out the work, there would be fewer "undertakers" taking up contracting as a side line.

### DID ANYBODY STEAL THE BOUNDARY LINE?

Word was received at the City Hall this week that engineers and surveyors who went out confidently to do a certain piece of work depending on the boundary line between Minneapolis and St. Paul, had been unable to find it. They searched along the river, looked under the Lake st. and Marshall av. bridge and then reported the disappearance. They said it ought to be running along the east bank somewhere, but admitted that it might be located out in the river between some of the islands. If there was a project on foot to move one of the islands over into St. Paul territory, Minneapolis must have heard of it, for the surveyors were looking for the boundary line to find out that the islands were all within the Minneapolis limits.



# The Importance of Good Lighting

By F. Park Lewis.\*

The importance of good lighting in public buildings is so self-evident that it would not require mention were it not for the fact that often in the finest specimens of modern architecture this seems to have been overlooked.

Some time since I happened to be in one of the progressive western cities where the state house, a splendid edifice located on a hill, and notable for its beautiful approaches, was so poorly lighted that on entering the relatively small doorway on a clear, sunshiny morning it was found that the entire main floor was artificially illuminated, and the basement floor, in which were situated some of the most important offices for the transaction of the business of the state, could not have been used were it not for the artificial lights employed. Unhappily, this is not an exceptional circumstance; a like serious defect is found in the multimillion dollar state capitol at Albany, New York.

In our auditorium the lights, to paraphrase the meaning of the apt French expression, "jump to the eye." In unnumbered public schools today, in which artificial lights must be used, the children are facing flickering gas lights in a vain attempt to see the marks on shiny blackboards. The school authorities have not yet learned that dark red and green walls absorb the light and for this reason the children are suffering.

The time has fully arrived when an authoritative body, composed of architects, of illuminating engineers, of schoolmen, of ophthalmologists and of all others who have to do with the management of light or the use of the eyes should collaborate in the development of authoritative plans for the education of the public on sight protection. The American

\*President of the American Association for the Conservation of Vision. Paper read before the seventh annual convention of the Illuminating Engineering Society, Pittsburgh, Pa., September 22-26, 1913.

## BRICK AND TILE NEWS.

New officers of the Fairmont Drain & Tile Co. for 1914 are: President, S. C. Armstrong; vice president and treasurer, J. W. Lowe; secretary, J. Edward Murphy; directors, R. B. Leet, John Schrooten, Nathan Johnson, F. Eisenmenger, G. H. Tinker and the officers. Preparations were started to open the plant in the spring.

Seventy-one cars of Hutchinson, Minn., tile were shipped during the year just passed, says the Hutchinson Leader, which "warns" Mr. Madsen, the owner of the Hutchinson Brick & Tile Works that he must plan to increase the output.

Consolidation of the Luverne, Minn., brick manufacturing companies was locally announced as having been effected Feb. 10, when the Luverne Press Brick Co. took over the factory and business of the Luverne Tile & Brick Co.

Construction of the brick and tile plant, Whitewater, Wis., is to begin in March; three buildings, 18 kilns; capital \$150,000; Mason City, Iowa, reported backing the enterprise.

A record year of 3,000,000 is reported for the New Ulm Brick & Tile Yards; extensive improvements planned by Mr. Aufderheide for this year include two brickmaking machines, one for sand mould; new kiln, 65,000 capacity; dry sheds, 75 h. p. engine.

Grant Ramsey was elected president of the Brick & Tile Co., at Grinnell, Iowa; Wm. Vogt, J. P. Lymon, T. J. Bray, C. A. Smith, Paul Essler, R. G. Coutts, R. V. Coutts. Directors; C. A. Smith, business manager; G. A. Graham, sales manager. The stockholders were elated over present prospects and the future. They have shipped more of the product of the factory in the last two months than at any previous time of the same duration, and there never were so many orders on the book to be filled.

## NORTHERN ELECTRICAL CO. IN NEW LOCATION.

As we look across 5th st. from the Lumber Exchange we see one of the old landmarks in this part of the city rapidly disappearing.

The several tenants of the buildings have all moved away, most of them having moved onto Hennepin av., following the trend of business somewhat farther out.

The Northern Electrical Co. was one of the last to vacate but made a record breaking move. They were selling goods and carrying on their regular business until noon of last Friday and succeeded in moving their immense stock, and were open for business at 717 Hennepin av. bright and early the following Monday morning.

The manager, Fred G. Dustin, advises us that the busi-

ness at the new location is excellent and that the friends are flocking in with their good wishes for the company's success in the new store.

Medical Association is now forming a sub-committee from the medical societies in every state in the Union on the conservation of vision. The National Education Association is deeply interested and is now ready to support any proper effort for broader instruction on the care of the eyes.

It was proposed several years ago that there might be one day in the year given to the conservation of light. It would be of great interest to the children to study the condition of their own school. In this respect their essays might include the physics of light illumination, natural and artificial; the amount of window space necessary for a well-lighted room, how it should be placed—in a word, the hygiene of the eyes. The study which this would necessitate would give a groundwork of knowledge which would insure better conditions in the future than exist at present. It would constitute a practical lesson on one of the essentials of right living and would result in collateral benefits of inestimable importance.

Close study of the value of good lighting is one of the most important subjects that can demand our attention.

## FACTORY LIGHTING AND WORKMEN'S COMPENSATION.

The state of California workmen's compensation, insurance and safety act (Boynton) which became effective January 1, 1914, contains clauses of especial interest to the electrical trade and closer familiarity with the requirements of the act may open up new channels for improved standards, together with the remodeling of existing lighting installations.

In the past, appeal for better lighting has been made to the employing interests upon the grounds that it meant increased output, better workmanship and a minimum spoilage. There now enters another and perhaps stronger factor to be considered, viz: the safety or protection of employes.

In the east, poor artificial illumination of workshops has been construed by the courts as contributory negligence on the part of employers where such poor illumination existed at the time an accident occurred.

New electrical goods are arriving daily and the company is showing a complete line of the highest grade of electrical appliances at medium prices in the Twin Cities.

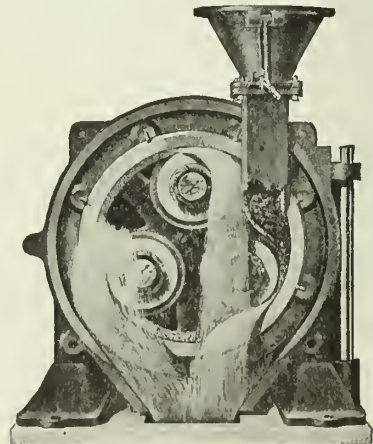
It is the intention of the Northern Electrical Co. to continue in general electrical construction work and the manufacture and installation of medium and highest grade of electrical lighting fixtures.

## FOWLER AND PAY INSTALL RING ROLL SYSTEM.

The Sturtevant Ring Roll system for grinding rock was placed in the cement plant of Fowler & Pay at Austin, Minn., for the manufacture of Austin Bricklayers' cement.

It is considered that the Ring Roll system of grinding is far superior to any other method of grinding, as it produces a product that is very fine and uniform.

The cement manufactured on the Ring Roll system is far superior to material produced on the old fashioned burr



stones, as the small particles coming from the Ring Roll system are all round instead of flaky, which makes the cement very uniform and works smooth and plastic from the mason's trowel.

The Austin Bricklayers' cement manufactured by Fowler & Pay is gaining in popularity every day and everyone who has used this cement has nothing but words of praise of its quality.



# Barrett Specification Roofs

## For Large Business Buildings

THE St. James Building, Jacksonville, Fla., is built on modern lines. And like almost all first class modern buildings, its 600,000 square feet of roof are covered with a Barrett Specification Roof.

The general acceptance of The Barrett Specification among first class engineers and architects is a highly significant development in the roofing trade. It is a movement which began with the leaders of the profession, who recognized its technical soundness. Accordingly, the inclusion of The Barrett Specification in full in building

specifications is rapidly becoming a universal custom.

The Barrett Specification has the advantage of furnishing a uniform and fair basis for competitive bids, together with satisfactory methods for determining the quality of the workmanship and materials on the job. Our own experts are usually available to inspect the contractor's work and certify whether or not the Specification has been strictly complied with.

A Barrett Specification Roof will usually last twenty or more years without a cent's worth of repairs. It takes the base rate of insurance. It gives the most service per dollar, its unit cost being less than a quarter of a cent per foot per year of service.

Booklets on request.

### Hydronon

*The Damp-proofing Paint*

Especially recommended for use above the ground level on the interior of stone, brick or concrete walls to exclude dampness.

Has superior covering capacity and is vastly superior to other paints in its permanence and resistance to dampness. It penetrates into the pores of the brick so that an accidental abrasion does not break the waterproof seal. Furnishes satisfactory base for plaster and keeps the plaster from injury by dampness in the wall.

### Velex

*Creosote Shingle Stains*

Send for the new free booklet, handsomely printed in colors, showing the beauty of these stains. Very economical and satisfactory.

**SPECIAL NOTE**—We advise incorporating in plans the full wording of The Barrett Specification, in order to avoid any misunderstanding. If any abbreviated form is desired, however, the following is suggested:

**ROOFING**—Shall be a Barrett Specification Roof laid as directed in printed Specification, revised August 15, 1911, using the materials specified and subject to the inspection requirement.

St. James Building,  
Jacksonville, Fla.  
A. J. Klutho, Archt.  
Roofers, Logan  
Concrete & Eng.  
Co.,  
Jacksonville

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# PERSONAL AND GENERAL NEWS.

## Doings of the Northwest this Week Boiled Down for Busy Readers

### PERSONAL AND GENERAL.

W. A. Cullen, secretary and treasurer of the Carr-Cullen Co., lumber, Minneapolis, announces the change of name from Carr-Collier Co., under amended articles, and states that the officers, management and personnel of the company remain the same.

Universal Portland Cement booths at the Chicago cement show attracted universal attention and a handsome booklet was issued giving information about each. There were the following books: Reception, Concrete Surfaces, Fire Resistance of Concrete, Bulk Cement, Care in Sack Handling, Concrete in Rural Districts, Watertightness of Concrete, Selection of Aggregates, Concrete Roads and Pavements, Universal Publication and Hydro Stone Walls. A list of men from Minneapolis and Northwest at Chicago, during the big show includes: Ed. Norblom, Andrew Christenson, Minneapolis, Landers, Morrison Christenson Co.; Mr. Stewart, St. Paul; F. L. Boyce, Sioux Falls; B. F. Goodman, Bemidji; Day Oakes, Minneapolis; Ed. Hanlon, Sioux City; O. P. Bailey, Minneapolis; Mr. Cooper, Minneapolis; Prof. Bull, St. Paul; Frank Balzer, Mountain Lake; J. J. Davy, Spring Valley; E. C. Webster, New Richmond; M. P. Moore, Bismarek; M. J. O'Reilly, Osceola; J. W. Peterson, Luverne; C. L. Grover, Zumbrota; A. E. Lindbloom, Carthage; T. M. Coughlan, Mankato; C. K. Anderson, Owatonna; Louis Hammel, Owatonna; M. Madsen, Minneapolis; Frank Malmberg, Morris; Nels Loitved, Albert Enblom, Wm. Curran, Valley City; H. S. Berge, Minneapolis; J. P. Johnson, Fergus Falls; R. C. Jones, Minneapolis; W. F. Hanke, Eveleth; A. H. Denniston, Fergus Falls; H. B. Childs, Winona; A. M. Hopeman, Moorhead; Henry A. Skallerud, Northfield; John H. Mullen, St. Paul; John L. Doherty, St. Paul; John Lauritzen, Fergus Falls; Kenneth P. Gregg, Minneapolis; W. P. Roscoe, Billings; Geo. W. Cooley, Minneapolis; Wm. Kelling, Ceylon; D. S. Keith, Ceylon; A. R. Van Dyck, architect, Minneapolis.

James G. Lawson, manager of the Minnesota Engineering Co., has been appointed superintendent of construction and maintenance of the city division of public works to succeed George J. Bloedel, who resigned the first of the year. Murchison offered a resolution at the regular council meeting asking that Lawson's salary be fixed at \$2,000 a year. Lawson will work as assistant to John Wilson, city engineer.

Nels Madsen, Hugo Evers, P. C. Bracker and T. Knutson have formed a partnership for the purpose of engaging in the general contracting business, Minneapolis. Nels Madsen and P. C. Bracker for some time have been engaged in the cement and concrete contracting and are already well known throughout the city in this connection. Hugo Evers has for the last four years been connected with Madsen Bros.,

contractors, in the capacity of office man and estimator, while T. Knutson has for several years been foreman on some of the largest buildings in Minneapolis. The firm will be known as the Standard Construction Co. The offices will be at 1101 Plymouth building.

### ARCHITECTS AND ENGINEERS.

Phillip P. Sharples, manager of the paving department, Barrett Manufacturing Co., will give a talk Saturday noon, March 7, to engineering students and Twin City engineers, in the main building, engineering college, state university.

That log cabin, log lodge and log architecture generally has been studied to good purpose by Minneapolis architects and draughtsmen, was revealed by the architectural club competition for designing the lodge to be built by a Minneapolis man, E. A. Purdy, on an island in Turtle lake, fifteen miles from Bemidji, Minn. Much praise has been bestowed on the winning designs and on the others as well. The first prize was given to William S. Dorr, of Dorr & Dorr, architects, Lumber Exchange. It is an admirable combination of good taste and good sense. Nestled in the forest on its little hill-top overlooking a picturesque lake, one of the thousands of picturesque sheets of water in the wilder northern portion of Minnesota, this cabin will make a picture to stir the hearts of nature lovers. The cabin is broad and low, crowning the hill, with wide eaves, 46 feet north and south by 23 feet east and west, broad screened porches front and back; all rooms except the kitchen with north outlook on the lake and south sun; living room, kitchen, guest room for women, cobble fireplace 9x96, 4-foot opening; porches 10 and 12 feet wide; casement windows. Work already has been started on getting out the 200 or more logs needed. The second prize was awarded to Louis B. Bushbeck, with Kenyon & Maine, architects, Metropolitan block; third, to Chilson D. Aldrich, with W. Channing Whitney, architect, Loan and Trust building; fourth, divided among all the other "combatants," as one of the comrades in this combat alludes to this event; Paul Perkins, with Whitney; A. M. Lindell, with Mather & Burner; Hjalmar Utterberg, with Tyrie & Chapman; H. S. Smith, Kenyon & Maine; J. H. Rustad, with C. E. Bell; E. G. Gaus, with Kenyon & Maine.

J. J. Smith has been appointed city engineer of Grand Forks, Minn., where 40,000 yards of new pavement are to be laid. Mr. Smith was engaged in railroad work from 1887 to 1894, and for the following three years in United States mineral survey work at Cripple Creek, Colo. He then took up drainage and municipal work and was for nine years city engineer for Grand Forks, N. D. Since 1909 he has been engaged in irrigation, land surveying, mining and railroad work in Oregon, Nevada and California.

### A FIREPROOF FREIGHTHOUSE.

The Rock Island is building a fireproof freight house at Davenport, Iowa. The frame is of reinforced concrete; the exterior walls are of paving brick; the doors and window frames of steel; the second floor of terrazzo and the trucking floor of asphalt mastic, 1½ inches thick laid directly on a concrete sub-floor. The roof is constructed of concrete blocks in a steel frame. This house will be protected inside by 2-inch fire hydrants and hose located in proper and conspicuous places and will be equipped with a telegraphic check system for a night watchman. Two and one-half inch hydrants are being located for outside protection, regardless of the fact that the property is readily accessible to a very good fire department. From the description it will be noted that the building will be practically fireproof. It is given as an example to illustrate what railroads have accomplished in the way of making their freight facilities of today less liable to destruction by fire.

The evolution of the freight house from the first to the second, and from the second to the third period of progression has caused an enormous outlay of capital, but when one considers the value of freight facilities, not only to the railroad itself but likewise to the shipper, the proper conclusion is that fire-resisting construction by all means pays for itself in the long run.



Interior view of the thoroughly modern, fireproof garage, with display room of the Oldsmobile Co., Hennepin av., Minneapolis; a 2-story, 3-slab building in which the Turner mushroom system of reinforced concrete construction was used. The building is 51x150. Bell, Tyrie & Chapman, architects, Minneapolis. J. L. Robinson & Co., general contractors.



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The Superintendent of Street Cleaning, Mr. Charles O. Davis, writes:

I am pleased to say that the results obtained from the use of this Tarvia are very satisfactory.

We have applied this material on tar penetration streets which had begun to ravel, and find that with a very good covering of this material the raveling was stopped. It gave to the road a nice smooth surface.

Our experience also on waterbound macadam streets is satisfactory and the streets show up fine. One application sets up the surface, keeping out

all water, with the result that the road is kept in good condition. It eliminates the dust nuisance as well.

"Tarvia B" is a special preparation of coal tar, which may be applied to the road either by hand or from some form of modern power sprinkler. The Tarvia percolates into the surface and hardens, forming a tough surface binder. The treated surface sheds water, resists ravelling and automobile traffic, and prevents the formation of dust. As a method of maintenance, periodical treatment with "Tarvia B" is inexpensive and highly satisfactory.

A more thorough method of preserving roads is to build them with Tarvia throughout, in which case the denser grades of Tarvia are used.

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# CONSTRUCTION & CONTRACT NEWS

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## MINNEAPOLIS, MINN.

Office: 912 Lumber Exchange. Phones: N.W. Main 3902; T.S. 2194.  
Please telephone news not later than Wednesday.

Items Marked with Asterisks Not in Daily Sheets.

Items marked with asterisk not run in Daily Sheets.

### BUILDING PERMITS.

Geo. F. Becker, 2940 44th av. S., 1-story frame dwl.....	1,200
Georgiana Brown, 3935 N. Lyndale av., 1-story plaster veneer dwl; H. G. Darrow, builder.....	1,600
J. K. Seirup, builder, 3701 17th av. S., 1½-story plaster veneer dwl.....	1,500
H. W. Ackley, 1107 16th av. SE., 2-story frame dwl.....	3,000
Mrs. Reintje, 827 N. Upton av., 1½-story brick veneer and plaster veneer dwl.....	2,000
H. E. Carver, 3852 10th av. S., 1-story plaster veneer dwl.....	4,000
L. J. Dawson and W. A. Wright, 3220-22 Aldrich av. S., 2-story brick veneer flats (4).....	7,000
Fred W. Zadach, 3020 Minnehaha av., 2-story plaster veneer flats (4); Serigstad, builder.....	5,000
L. S. and Samuel Loeb, 511-13 Hennepin av. and 7-13 S. 5th st., 4-story brick, terra cotta and tile and reinforced concrete arcade store and office building; Splady, Abbee & Smith, builders.....	170,000
B. C. Deline, 1208 27th av. NE., 1-story frame dwl.....	2,000
P. H. Phillips, 4005 Pleasant av., 1½-story frame dwl.....	3,200
George T. Chase, 5120 S. Vincent av., repairs to dwl.....	1,000
Curtis, Yale, Howard Co., 1809 5th st. SE., 2-story iron-clad warehouse, SE¼ of SE¼ about 75 ft. from 18th av. SE.; W. H. Arrell & Co., builders.....	20,000
R. K. Tyra, 4829 35th av. S., 1-story plaster veneer dwl.....	2,000
Mrs. J. Maude De Zurik, 2344 Seabury av., 2-story plaster veneer dwl.....	4,800
Ernest and Adolph Anderson, 3008 21st av. S., 2-story frame dwl.....	2,500
W. M. Sage, 4216 Linden Hills houl., 2-story frame addition and alterations to dwl.; W. E. Sage, builder.....	1,000
A. H. Edsten, 2401 E. Franklin av., 1-story plaster veneer store.....	1,500
Wm. Apelt, 3756 10th av. S., 2-story frame dwl.; A. E. and J. S. Melin, builders.....	2,600
Wm. Apelt, 912 E. 38th st., 1½-story frame dwl.; A. E. and J. S. Melin, builders.....	1,800
John Fager, 3607 1st av. S., 2-story plaster veneer addition to dwl., alterations.....	2,000
Western Heating Co., 4705 4th av. S., 1½-story plaster veneer and shingle dwl.....	2,500
Joseph Block, 1221-23 Western av., 1½-story plaster veneer moving picture theater.....	3,000
Conrad Stemland, 2224 E. 36th st., 1-story plaster veneer dwl.; James Peterson, builder.....	2,600
Anna Cronholm, 915 22d av. N., 1½-story plaster veneer dwl.; Carl Peterson, builder.....	2,000
Ives Ice Cream Co., 213-17 2d av. SE., 1-story brick and ironclad warehouse; Libby & Nelson Co., builders.....	7,500
J. P. Hill, 720 S. 4th st., electric freight elevator; Frank A. Pigeon, builder.....	1,000
John E. Andrus, 40 S. 6th st., alterations for store; P. E. Nelson, builder.....	1,000
Fred H. Peschau, 3537 Bloom av., 1½-story plaster veneer dwl.; Nelson-Enblom Const. Co., builders.....	3,000
Model Dairy Co., 2934 Stevens av., 1-story concrete block addition to creamery; T. E. Johnson, builder.....	2,000

\*A. R. Van Dyck, architect, McKnight building, has prepared plans for a modern residence, 1952 Penn av. S., for S. G. Palmer, Jr.; 38x32, brick and stucco, 2-story, concrete foundation, sleeping porch, sun room, hot water heat, one brick and one tile fireplace, tile bath and vestibule, vacuum cleaner, piping, laundry trays, Rudd automatic gas water heater, beech floors, birch finish, white and old marble enameling on the finish, Pratt & Lambert, or equivalent paint. All bids in March 6.

Kirby T. Snyder, architect, Plymouth building, has plans in progress for a large store and flat building, at 26th and Nicollet; T. K. Kelly Sales Co., agents for owner, Security building; 8 stores and 15 flats; 2-story, brick, 73x163; all modern, steam heat, plate glass fronts, gas stoves, refrigerators, wall beds, kitchenets, tile vestibule, marquis, structural iron; fireproof or mill, 18 baths, tubs, lavatories; plans out in two weeks; cost \$35,000; may be day labor.

Davis Construction Co., 305 Kasota block, is ready to receive bids on sub-contracts and material, for a large suburban residence at Clear Springs, Lake Minnetonka electric line, for F. E. Barrows; 47x51, 2-story, full basement with garage, 2 brick fireplaces; two tile baths, tile floors, plumbing, electric light, hot water heat, sleeping porches, beam ceiling, leaded glass; concrete foundation, hardwood throughout; septic tank, stable; cost \$12,000.

Plans have been furnished by Glenn L. Saxton, Plymouth building for frame cottage; Clare City, Minn., birch trim, \$2,400, W. F. Unger; frame cottage \$2,400, M. A. Leisen, St. Cloud, Minn.; frame cottage, J. F. Larson, Glencoe, Minn., \$3,000, O. B. Burtress, 37 Clifford building, Grand Forks, N. D.,

\$2,200; A. L. Anderson, Roundup, Mont., frame, \$2,200; Geo. M. Davis, Redwood Falls, frame, oak trim, \$3,500.

C. E. Bell, architect, 310-314 Security Bank building, is making preliminary sketches for a plant and warehouse for the Northwestern Compo Board Co., Minneapolis, at 44th and Lyndale av. N.; 100x400, 2-story, with "L" 100 feet long; reinforced concrete construction, brick walls, gravel roof, skylights, electric freight elevator, wire sash, fireproof frames, heating, plumbing, wiring; cost \$50,000.

\*Douglas Fiske, 1924 Stevens av., is remodeling 601-3 Marquette, the Gately corner, with new front and interior improvements, cost \$12,000. Contract to James Leck & Co. Plans by Victor F. V. De Brauwere, architect, Plymouth building. Premises to be occupied by California Fruit Store which will vacate the Donaldson corner.

\*Bids received until 2 p. m., March 10, for plumbing, heating, ventilating, electric work and two electric passenger elevators, new contagious building, city hospital. Richard Tattersfield, secretary, charities board, room 11, City Hall. Charles L. Pillsbury Co., engineers; Long, Lamoreaux & Long, architects, 830 Hennepin.

Bids received until 11 a. m., March 16, by county auditor, A. P. Erickson, for furnishing 76 buoys with concrete weights and eye-bolts like sample now at Lake Minnetonka; also for repairing 224 old buoys stored at Minnetonka; all buoys to be painted with pure white lead and oil after April 15; check for 5 per cent; surety bond.

C. A. Boehme, architect, Kasota block, has furnished plans for a commercial building, at Watertown, Minn., for Frank Bandemir; store, hotel, dance hall and office; 54x90, 2-story brick and tile; tile partitions; tar and gravel roof, steam heat, plumbing, wiring, plate glass front, independent water system; owner lets all work.

The official board of the Prospect Park Methodist Episcopal church have commissioned E. R. Ludwig, architect, Cecil st. SE., Minneapolis, as architect in charge of their new church building to cost not more than \$20,000, complete. Charles H. Ramsdell, 812 New York Life building, chairman building committee.

Kirby T. Snyder, architect, Plymouth building, has prepared plans for modern residence at Lester Prairie, Minn., for H. Engells; brick and frame, 2-story, all modern, hot water heat, two tile baths, electric lights, oak mantel, sideboard; plans out about March 20; owner will take bids; cost \$7,000.

Kirby T. Snyder, architect, Plymouth building, is preparing plans for a school at Ulen, Minn., 8-room, 60x80, 2-story and basement, frame or tile, and stucco, steam heat, fan system, plumbing, slate blackboards, maple floors, yellow pine finish; ready for bids April 1; A. E. Weston, clerk school board.

\*Fred H. Peschau, 112 S. 13th st., is building a modern dwelling, \$3,500, 2537 Bloomington; hot water heat, 27x28, concrete block foundation. Nelson Enblom Construction Co., 615 Plymouth building, builders. Plans by Perry Crozier, architect, Plymouth building.

Cottages will be built: A. M. Cavanagh, Spring Valley, frame, siding and shingles, 26x28, \$3,600; R. F. Bolender, Northwood, Iowa, frame, birch trim, \$3,000; Peter Rouquier, Osseo, Minn., frame bungalow, \$3,200; Glenn L. Saxton, architect, Plymouth building.

\*Libby & Nelson, general contractors, Temple Court, will build the Ives Ice Cream Co. warehouse, 213 2d st. SE.; brick and iron clad; 66x165, \$7,500. Keys & Colburn, architects, Donaldson building.

W. L. Harris, New England Furniture Co., will proceed with plans for new building to house New England store, 7th st., Marquette and 2d, and will complete Garden theater; payment of \$590,000 on purchase present site New England store announced.

Bids received until 11 a. m., March 23, by the county auditor, A. P. Erickson, for graveling 17,550 lineal feet, road bed, town of Brooklyn, state highway 2, plans in register of deeds' office court house; check 5 per cent; surety bond.

Contract awarded for M. E. church at Aitkin, Minn., to N. J. Holden, Aitkin; at \$9,983; work to start April 1; plumbing heating, wiring, art glass, furniture, to be let by owner; Kirby T. Snyder, architect, Plymouth building.

Bids received until 11 a. m., March 23, by county auditor, A. P. Erickson, for grading and graveling 11,650 lineal feet county road 2, state highway 10, Edina, plans with county surveyor; check for 5 per cent; bond.

D. Reed, 809 14th av. N., will build a modern dwelling at



# PROPOSAL ADVERTISING FOR BIDS

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COPY RECEIVED up to Friday, 10 a. m., will be published in the paper, delivered to subscribers on Saturday, but should reach the publication office, Lumber Exchange, Minneapolis, earlier in the week, when possible.

LATE NOTICES Friday morning can be transmitted by long distance telephone.

### BIDS ON THEATER WANTED.

Sioux City, Iowa.

Sealed proposals, directed to John Biegger, care of Colonial Theater, Sioux City, Iowa, and endorsed "Theater Building" will be received on or before the 17th day of March, 1914, at 4 o'clock, P. M., for the labor and material required in the erection and completion of the New Empress Theater and Office Building in Sioux City, Iowa, according to plans and specifications prepared by Joseph Schwarz, Archt., Sioux Falls, S. D.

Each bid is to be accompanied by a certified check of a sum equal to 2 per cent of the bid, and made payable to John Biegger.

Plans are on file at the office of the Colonial Theater, Sioux City, (5 sets) and at the Builders' Exchanges in St. Paul and Minneapolis.

Contractors desiring the loan of a set for their own use, can obtain same from the architect, upon a deposit of \$25.00, one-half of which will be refunded upon the return of plans at the time of letting.

### NOTICE TO CONTRACTORS.

Power House, Coon Rapids, Hennepin County, Minn.

Bids will be received until March 12 for building powerhouse of the Northern Mississippi River Power Co. at Coon Rapids. Plans and specifications may be secured by calling at the office of the Minneapolis General Electric Co., Minneapolis. A deposit of \$10 will be required from all bidders wishing to take out these plans and specifications, which amount will be refunded when same are returned.

NORTHERN MISSISSIPPI RIVER  
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(Continued on page 16)

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809 14th av. N., rough-cast and shingle, oak trim, hot water heat, fireplace, 24x26, \$3,200; plans by Glenn L. Saxton, architect, Plymouth building.

P. H. Phillips, 3242 1st av. S., is building a 1½-story frame dwelling, at 4005 Pleasant av., 24x28, concrete block foundation, hardwood floors and trim, hot water heat, electric light, \$3,200; day labor.

A. E. and J. S. Meim, 102 E. 25th, have contract for a modern dwelling at 3756 10th av. S., for Wm. Apelt; 24x26, 2-story, frame, concrete foundation, hot water heat; \$2,600.

Work on new street car lines ordered for 1914, will be started by street railway company soon as weather permits; 15 miles of extensions; Geo. L. Wilson, engineer for company.

Conrad Stemland, 3612 23d av. S., is building a plaster veneer dwelling, at 224 E. 36th st., 28x40, modern, hot water heat; \$2,600; James Peterson, contractor, 3107 Dupont av. N.

Western Heating Co., 13 E. 36th st., is building a 1½-story, frame and plaster veneer and shingle dwelling, at 4705 4th av. S.; 24x24, hot water heat, \$2,500; day labor.

Mrs. Maude J. DeZuirk, 1903 E. Lake will build a modern residence at 2344 Seabury; 26x26, 2-story plaster veneer, hot water heat, fireplace, tile bath; cost \$4,800.

Fire losses this week: B. L. Weinberg, store building, 428 20th av. N.; store, 111 6th st S., owned by Fawkes Auto Co.; dwelling, Walter Kirby, 3031 Lincoln.

Permit issued for warehouse of Curtis-Yale-Howard Co., 1809 5th st. SE., 90x174, 3-story, iron clad; cost \$20,000; W. H. Arrell & Co., contractors, Palace building.

B. C. Deline, 1112 24th av. NE, is building a 1-story frame dwelling, 28x40, at 1208 47th av. N.; hardwood trim, plumbing, gas, concrete block foundation, day labor.

Permit issued for moving picture theater, 1321 Western, Joseph Block, 1311 Western, owner; stone foundation, 32x90, 1-story plaster veneer; \$3,000.

Knights of Pythias plan central building down town; Frederick S. Atwood, Grand Chancellor, Minn., 4601 York av. S. Minneapolis, St. Paul and the street railway company are preparing to replank the Lake st. bridge, \$20,000.

\*F. C. Wynn is building a modern residence at 4251 Garfield, 26x43, plaster veneer, hot water heat, fireplace, tile bath, \$4,300. W. H. Evans, builder, Hotel Elgin Co.

Building permits for February totaled \$473,305, an increase of \$112,000 over February, 1913.

University club plans a club house, S. S. Thorpe, real estate, Andrus building, president.

## ST. PAUL, MINN.

404 Scandinavian American Bank Bldg. Phone: N.W. Cedar 1683.  
Mail or telephone news not later than Wednesday.

Items marked with asterisk not run in Daily Sheets.

### BUILDING PERMITS.

Emil A. Wenzel, 1088 Rice, 1-story frame bungalow, 119 Rose near Rice; Emil A. Wenzel, builder.....	1,300
R. F. McGoon, builder, 1506 Laurel av., 1-story frame dwl., Saratoga near Ashland.....	2,500
R. F. McGoon, builder, 1506 Laurel av., 2-story frame dwl., Laurel near Pascal.....	2,500
St. Paul Norwegian Hospital Society, alterations and repairs, brick school into hospital, Jackson near 14th; O. M. Rogman, builder.....	13,000
August Peterson, builder, 1185 Burr, 1-story frame dwl., Arkwright near Brainerd.....	2,200
C. G. Collova, 699 Lee av., 2-story frame dwl., Pleasant near Randolph; James Barrett & Sons, builders.....	1,400
E. C. Horsnell, builder, 308 W. Page, 2-story frame dwl., Page near Seminol.....	2,000
Emil Schroeder, builder, St. Anthony, 1½-story frame dwl., 416 Como near Buford.....	2,000
John C. Howley, Blue Earth, Minn., 2-story frame dwl., Dayton near Howell; John C. Howley, builder.....	3,000
Drivers of St. Paul, alterations and repairs, 236 Dayton near Summit; D. E. O'Connell, builder.....	5,000
Divers of St. Paul, 3-story frame alterations and repairs, 231-34 Selby near Summit; D. E. O'Connell, builder.....	6,000
Peter Heck, 418 Rice, 2-story frame flat (4), Sherburne near Rice; H. J. Krapp, builder.....	4,500
A. Holenstein, builder, 1025 Wakefield av., 2-story frame dwl., Fremont near Mendota.....	2,500
A. J. Patterson, builder, 417 Herschel, 1½-story frame dwl., Fry near Shields.....	2,250
Cathcart & Maxfield, 3-story brick and steel store, Minnesota near 5th; Lauer Bros., builders.....	40,000
E. L. Brock, builder, 185 Stevens st., 2-story frame, alterations and repairs, Winslow near Louisa.....	\$2,000
J. W. Funk, builder, 851 Delaware, 1½-story frame dwl., 851 Delaware near Wyoming.....	2,500
R. J. K. Murray, 1656 Wesley, 1-story frame dwl., 2079 Lincoln near Cleveland.....	2,200
Ford Auto Co., 3-story freight elevator, University near Rice; Rees & Colborne, builders.....	4,200
Hedman Brothers, 1-story brick addition to store, Rice near Wayzata; St. Paul Bldg. Co., builders.....	5,000
Anthony B. Casey, 3-story brick and concrete creamery, Franklin near Eagle; Anthony B. Casey, builder.....	14,000
Warren Upham, alterations and repairs, Custer near Chelmsford; P. O. Nasvick, builder.....	1,200

\*Bentley & Hausler, architects, Pioneer building, have prepared plans for a lodge building, Kampeska, A. F. & A. M., Watertown, S. D.; cut stone, brick, ornamental plaster, leaded

glass, plate, composition roof, sky lights, plumbing, heating and wiring, steam heat, hardwood and tile floors, shower baths, 50x100, 2-story and basement; plans completed March 10; architects will take figures.

\*Bentley & Hausler, architects, Pioneer building, have prepared plans for a store and flat building, 41x80, 2-story and basement, at Sherburne and Dale, for Daniel N. Wagner; pressed brick and cut stone; tile, composition roof, hardwood finish, skylights, prismatic, leaded and plate glass; R. C. Court, 2 stores and 4 flats, two baths, 5 toilets; architects will take figures.

\*Bentley & Hausler, architects, Pioneer building, have prepared plans for a store and flat building on Carter and Como, for A. F. Evenson; 72x90, tapestry brick and stucco, composition roof, sky lights, cut stone, steam heat, plumbing, hollow tile curtain walls and gypsum block partitions, 2-story and basement; plans ready this week; architects will take figures.

\*Bentley & Hausler, Pioneer building, architects, have prepared plans for a store and light manufacturing building, St. Paul, owner's name withheld; reinforced concrete, 76x110, 2 floors and 2 mezzanine floors, basement; plumbing, heating, wiring, brick and terra cotta, excavation completed; architects will take bids.

\*Bentley & Hausler, architects, Pioneer building, have prepared plans for remodeling a store building, Robert between 3d and 4th; 4-story, rebuilt and story added; standard and polychrome, terra cotta, leaded and plate glass, sky light, sidewalk lights, tile, plumbing and heating; architect will take bids.

W. F. Keefe, architect, Union block, is taking bids on parochial school New Prague, Minn., Church of St. Wenceslaus; Rev. J. K. Cernak, pastor; brick, 2-story, basement, 6-room and large auditorium with stage; steam heat, plumbing fan system, slate blackboards, shingle roof, 78x88.

Alban & Lockhart, architect, Chamber of Commerce building, report bids awarded on Union hospital at New Ulm, general, Otto Neitge, Mankato; plumbing, Victor Rachter Plumbing Co., St. Paul; electrical work, Hubbard Electric Co., St. Paul.

Plans are being prepared by W. D. McLeith, architect, care of Sperry Realty Co., for Hamline Grocery Co. building, Hamline and Thomas; 50x60, modern, 2 stores, 2 flats, \$10,000; also plans for a bank building at Grantsburg, Wis., 60x100; details later.

\*C. A. Bassford, architect, Gilfillan block has prepared plans for a dwelling, Dayton between Victoria and Milton, for W. E. Delano; half bungalow, frame, stone foundation, hot water heat, leaded glass, modern; 28x36, owner will let all work.

A. L. Garlough, architect, Rosen building, has prepared plans for a frame and stucco dwelling, Van Buren near Pascal, for E. J. Rischetsch, 968 Hague; 2-story, concrete and blocks foundation, hot water heat, modern, owner taking figures.

Work on two large theaters, new building for Gaiety, and new building in So. St. Paul, will be started in a week or two; cost of former \$85,000, seats for 2,000; cost of latter \$35,000, seats for 1,000; Otto Rath, manager, Gaiety.

\*Bentley & Hausler, architects, Pioneer building, have prepared plans for a 3-story and store loft building, Robert between 3d and 4th; terra cotta front, plate and prismatic glass, steam heat, wiring, composition roof.

Contract awarded to St. Paul Gas Light Co., for 17 arc lamps, along Keller parkway, outside city limits; further lighting of county highways, contemplated; including lights all the way, St. Paul to White Bear.

\*Bentley & Hausler, architects, Pioneer building, have let contract for Hedman store addition to St. Paul Building Co., 24x40, plate and prism glass, brick, steam heat, tile, steel, composition roof; cost \$10,000.

St. Paul Motor Boat club voted to ask architects of both Minneapolis and St. Paul to submit plans for \$10,000 club house; club will also build a \$5,000 floating structure; Ed. Parish, commodore, 965 Como av.

A modern refrigerating plant costing \$9,000 will be installed at St. Luke's hospital. Work will begin soon. Three large rooms will comprise the new plant, one to be kept at zero and the other two at freezing.

Alden & Harris, architects, Commerce building, were selected, in competition, as architects for the county jail and sheriff's residence at Little Falls, Minn., 18 cells, fireproof, brick and stone, \$40,000.

Of \$400,000 raised by Catholic diocese, \$100,000 will be used for parish school building, College and 3d; thoroughly modern structure, fireproof; E. L. Masqueray, architect, Endicott building.

\*A 4-flat is being built by Peter Heck, 418 Rice, on Sherburne between Rice and Merriam; 40x44, 2-story, frame, modern, \$5,000; H. J. Krapp, contractor, 369 W. Central av.

\*John H. Wheeler, architect, N. Y. Life, will have plans ready next week, for a 4-room brick school, at Ghent, Minn.; 58x50; 2-story, steam heat, wiring, slate blackboards.



# CONTRACTORS BONDS AND EMPLOYERS LIABILITY INSURANCE

EQUITABLE SURETY COMPANY  
Assets \$1,484,744.80

Surety Bonds Executed Here  
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CORP. Assets 4,776,085.18

Hood & Penney Company, General Agents

PHOENIX BUILDING,  
Minneapolis  
Minn.

## BRICK MAKERS

### HILLSBORO SAND MOLD BRICK

Suitable for facing, chimneys, and general building purposes. Color, buff or light red

OLE ARNEGARD, Manufacturer

Successor to Hillsboro Brick & Tile Co

HILLSBORO, N. D.

### NOTICE TO CONTRACTORS.

Oil Tractors, Graders, Culverts, Pocahontas, Iowa.

The Board of Supervisors of Pocahontas County, Iowa, will receive sealed bids on Oil Tractors, Graders (10 and 12-foot blades), and Culverts (either cast iron or corrugated iron), at one o'clock P. M. on March 17, 1914. The Board reserves the right to reject any or all bids.

L. O'DONNELL,  
County Auditor, Pocahontas, Iowa.

### BIDS WANTED.

Church, Fort Dodge, Iowa.

Bids wanted and plans for M. E. Church to cost approximately eighty thousand dollars are complete and now ready for contractors. Bids to be opened about March 23. Five dollars deposit required for set of plans.

E. I. LEIGHTON,  
Chairman Building Committee,  
Fort Dodge, Iowa.

### PAVEMENT, CURB, GUTTER BIDS WANTED.

Pella, Iowa.

Sealed bids will be received by the city of Pella, Iowa, for the construction of approximately 3,710 square yards pavement and about 2,378 lineal feet combined curb and gutter. The pavement for which bids are called for to be of one of the following kinds, viz: 1.

## PROPOSAL ADVERTISING FOR BIDS.

Portland Cement concrete. 2, Portland Cement concrete with a wearing surface of Dolarway Bitumen. 3, Vitrified Brick paving blocks. 4, Bitulithic pavement. 5, Asphaltic Concrete pavement. 6, Sheet Asphalt. To be constructed as specified in the plans and specifications which are on file in the office of the City Clerk. Bids for the above will be received by the City Clerk until 4 o'clock P. M., of the 18th day of March, 1914, each bid must be accompanied with a certified check, in a separate envelope, in amount, \$1,000.00 payable to the Treasurer of the City of Pella. Copy of specifications will be furnished to applicants upon receipt of \$5.00.

The City of Pella reserves the right to select the kind of pavement and to reject any or all bids.

A. C. KUYPER,  
City Clerk.

### NOTICE TO CONTRACTORS.

Church.

Ridgeway, Iowa.

The undersigned hereby gives notice of the sealed proposals for the erection of a brick church, to be built two miles south of Ridgeway, Iowa, for the Norwegian Lutheran Congregation. Bids are to be opened by the Secretary of the Building Committee on the thirteenth day of March, 1914, at 1:30 P. M., on the building site, two miles south of Ridgeway, Iowa. All bids must be in strict accordance with the plans and specifications prepared by J. E. Nason, No. 622 Corn Exchange, Minneapolis, Minn. After March 1st, 1914, the plans may be seen at the Winneshiek County Bank, Ridgeway, Iowa, and also at the Winneshiek County Bank, Decorah, Iowa; likewise at the office of the architect. A certified check of \$300.00, payable to Rev. D. C. Jordahl, Secretary, must accompany each bid as a guarantee to enter into contract and furnish a satisfactory bond for the faithful performance of the contract.

All bids should be addressed to the Secretary, Ridgeway, Iowa.

The right is reserved to reject any or all bids.

### NOTICE TO CONTRACTORS.

Church, Ryder, N. D.

Bids for Presbyterian Church Building will be received up to 8 o'clock, P. M., March, 23, 1914:

First. For Building Complete above basement.

Second. For all necessary Lumber, Lath, Brick, Wood Fiber, Plaster, Tar, Felt Doors, Windows, etc., Brick for chimneys from Basement Floor.

Third. For all Hardware, Paint, Oil and Varnish.

Fourth. For all Carpenter work, Painting, Plastering, including chimneys all of above Basement. All according to plans and specifications now on file at office of B. A. Dickinson, Ryder, N. D.

The Board Reserves the Right to Reject any or all bids.

By order Board of Trustees.

A. C. O. LOMEN,  
Secretary.

### NOTICE OF LETTING CONTRACT.

State Road, Norman County, Ada, Minnesota.

Notice is hereby given that the County Board of Norman County, will on the 27th day of March, 1914, at 2 o'clock in the afternoon, receive bids for the construction of ten miles of state road No. 1, of Norman County.

Said work will be let in one contract, or in two separate contracts. For the grading of said road in one contract, and the graveling, furnishing and placing of culverts in one contract.

All bids to be filed with the County Auditor before March 27, 1914.

A certified check in the sum of 5 per cent of the contract price to accompany each bid.

The Board reserves the right to reject any and all bids.

Plans and specifications now on file in the County Auditor's office.

D. E. FULTON,  
County Auditor, Ada, Minn.

(Continued on page 18)



SEND US YOUR PLANS  
Our figures cost nothing, and  
YOU WILL SAVE MONEY

## Don't Make a Mistake!

You Can Buy the Best Sheet Metal Work

such as Cornices, Steel Ceilings, Skylights,  
Ventilators, Gutters, Ridgings, etc., etc.,

[ Right Here at Home—No Wait, No Worry

ST. PAUL ROOFING, CORNICE  
and Ornament Co.  
ST. PAUL, MINN.



Permit issued for remodeling brick school, Jackson and 14th, for Norwegian society hospital; \$15,000; O. M. Rognan, architect, Detroit building, 4th and Wabasha.

W. J. Hoy Co., the contractors, are doing a record-breaking job in Minneapolis, razing the buildings on the Loeb Arcade site, 5th and Hennepin, in 9 days.

Recommendations for an automobile and mixer to be purchased by the school board have been made to the board purchasing committee by Supt. Gerlach.

Several designs for National Bank of Commerce building Minnesota and 5th; cost \$40,000, are under consideration; probably 3-story, to be built at once.

Park board will ask for bids soon for 4-bridges over canal, Phalen Park; plans by park superintendent Fred Nussbaumer. Estimated cost \$72,000.

Diocese of St. Paul, will improve buildings at 231-35 Selby, 3-story, frame, to cost \$11,000; D. E. O'Connell, contractor, 301 Selby av.

Bids have been received for county safe from L. F. Dow Co., and Diebold Safe & Lock Co., referred to committee.

Assembly rejected all gravel and stone bids received with paving bids; will advertise for new bids.

Fire destroyed garage at Dr. R. I. Flynn, residence, Cherokee and Baker; insured, \$12,000.

## PLANS AT FARGO BUILDERS EXCHANGE

Plans at the Fargo Builders & Traders' Exchange, Mar. 6: school, A. Van Horn, brick, 54x30, 2-story, Noonan, N. D., close Mar. 24; city hall J. W. Henry, architect; brick, 70x40, 2-story, Ellendale, N. D., close, March 17; school, Haxby & Gillespie, architects, brick, 46x43, 2-story, Pickert, N. D., close March 31; four schools, Hancock Bros., architects, frame, 28x32, 1-story, near Osnabrook, N. D., close March 18; hotel Haxby & Gillespie, architects, brick, 45x115, 4-story, Bemidji, Minn., soon; bank, Haxby & Gillespie, architects, brick, 25x50, 1-story, Sheyenne, N. D., soon; school, Haxby & Gillespie, architects, brick, 50x80, 2-story, Belfield, N. D., soon; post-office, O. Wenderoth, architect, brick, 101x65, 2-story, Minot, N. D., March 17.

School at Glenfield, N. D., awarded to Hansen & Clausen, Glenfield; Haxby & Gillespie, architects; store, Wahpeton, awarded to Bower Bros., Fargo; A. J. O'Shea, Fargo, architect.

## MILWAUKEE, WIS.

Office: Hathaway Building. Telephone: Main 1827.  
Mail news to Minneapolis office not later than Wednesday.

Architects Herbst & Hufschmidt, Caswell block, have awarded contracts for the erection of a store building for Alex Swenson on North av.; general contract to Erdman Schulz and concrete and cement work to State Concrete Block Co. The same architects have awarded contracts for erecting a brick, stucco and hollow tile, 43x47, residence for A. P. Kunzelman, on 3d av., near Mitchell st.; carpenter, Ernest Hahn; mason, S. Czaplowski & Sons; cut stone, concrete and cement, General Construction Co.; plaster, F. W. Baumann; tile, Badger Construction Co.; sheet metal, Miller Bros.; iron work, Colnik Manufacturing Co.; plumbing, Trebs & Dereszynski; heating, Downey Heating & Supply Co.; electrical, Frank Kranz; tile roofing, Miller Bros.; painting and glazing, Koch & Woboril.

Architects Leiser & Holst, Germania building, will take bids for erecting a duplex flat on Cedar st., near 23d st., for Oscar Stoltz; to be of brick veneer construction, 2-story and basement, 24x49; hot water heating, asphalt roofing, art and plate glass. The same architects have awarded contracts for erecting a store and office building at 12th and Galena sts., for Ernest Demin; excavating, Fremming Bros.; mason and cut stone, G. Jeske; concrete and cement, Steinhagen & Klinger; plaster, E. Jahn; iron work, Hackendahl & Schmidt; plumbing, O. H. Dittmar; roofing, L. Coorsen. On a duplex flat for H. Tessman on 1st st., near Clark st., these architects have awarded excavating and mason to G. Jeske and plumbing to Walter Klinkert.

The Badger Architects, 916 Walnut st., are working on plans for erecting a store and flat building on Fond du Lac av., near 19th st., owner's name withheld; to be of solid brick construction, first floor reinforced concrete, 3-story and basement, 26x80, steam heated; cost \$13,000. The same architects will be ready for bids shortly on the erection of a duplex flat to be erected on Sherman, blvd., owner's name withheld; to be 26x54, 2-story and basement, brick veneer construction first floor, hot water heating; cost \$6,500. Contracts for a store, office and flat building for Goodsit & Rosenthal, Fond du Lac av. and 18th st., are being let by the Badger Architects, who prepared plans; general contract to Rubin & Melnakoff.

Consulting Engineers Klug & Smith, Mack block, are taking figures on the construction of a factory building for the Milwaukee Grinder & Specialties Co.; to be erected at 22d and Sycamore sts.; 90x120, concrete foundation and first floor, brick walls, composition roofing. These architects have awarded contracts for constructing a factory for the Wisconsin Machinery & Manufacturing Co., West Allis; carpenter, Jacob Koenen; mason, Walter Jeske; concrete and cement, Steinhagen & Klinger; galvanized iron, Biersach & Niedermeyer; structural steel, Milwaukee Structural Steel Co.; plumbing, Thompson & Harriman; composition roofing, Windig & Gezelschap.

Architect John Roth, 428 Grand av., is taking bids after March 2, for remodeling a store building on 3d st., near Center st., and also for erecting an addition to same; bids on carpenter, mason, plaster, sheet metal and plumbing work. This architect has awarded contracts for a store building to be erected at 17th and Center sts., for Peter Schultz; excavating, concrete and cement, Clos Construction Co.; mason, Aug. Niedling; plaster, Geo. Kissner. The same architect has awarded on an apartment at 27th and Galena sts., for Mr. Holbright, the carpentry to Wm. Dibbert; cost \$12,000.

Architects Siebert & Bruecker, 557 12th st., are preparing plans for a bungalow, frame construction, brick foundation, 24x42, furnace heating, to be erected for Mr. Baer on Wash-

## HEAD OF THE LAKES

Office: 206 Manhattan Building. Telephone: Auto 3036.  
Mail or telephone news not later than Wednesday.

### DULUTH.

#### BUILDING PERMITS.

T. T. Hudson, brick store building, W. 1st st. near 2d av.	18,000
Robert Ferguson, frame dwl., Bruce st. near Woodland av.	5,000
M. Windell, frame dwl., Allendale av.	2,500
J. Oreckovsky, brick hotel, 8th av. W. and Superior st.	29,000
M. L. Davies, brick store, W. Superior st. near Lake.	10,000
H. H. Brown, frame dwl., Charles av. near D. M. & N. right of way	1,000
F. Anderson, frame dwl., 38th av. W. near 4th st.	2,000
Baxter Sash & Door Co., additional story, W. Michigan st.	3,500

\*First reading was given an ordinance to appropriate \$1,800 for construction of a concrete bridge over Keen's creek between Getchel road and the boulevard at Oneota cemetery.

\*City council has appropriated \$35,000 for supplies for the water and light department, and \$40,000 for the purchase of cast iron pipes for the department.

\*Duluth's wholesale district suffered a \$75,000 fire recently when the Barthe-Martin Co.'s 3-story building at 102 W. Michigan st., was burned causing a \$45,000 loss to the wholesale grocery firm, a \$20,000 loss to the Huntley Printing Co., which occupied the second floor and approximately \$10,000 loss to the structure itself.

Holstead & Sullivan are architects for a residence to be built for Bentley P. Neff on 6th st., between 27th and 28th avs. E.; according to the plans it will be brick and stucco construction on Tudor and Gothic lines of architecture.

\*Edward P. Shurick for some time associated with Vernon J. Price & Co., will open an office on his own account at 1006 Torrey building on March 1, and will specialize in high class residences.

\*The school board is planning to build a school house between New Duluth and Gary to take care of the pupils in the new steel plant industrial district.

\*Contract has been let to Berquist Bros. for a 2-story commercial building for M. L. Davis, Chicago, to cost \$10,000; located at 27 W. Superior st.

### SUPERIOR.

Bids received by Fred Besthause, owner, after March 15, for a flat building, 38x60, 2-story, brick; F. E. Johnson, architect, city; reinforced concrete fireproofing, common and hollow brick, hot water heat, gas and electric light, sheet metal cornice and sky light, composition roof, common plaster, corner bead, paint, varnish, plate, art and leaded glass, oak finish; building will have 8 5-room flats.

The statement is now made that the lake level will not be raised by the improvements contemplated in the St. Mary's river at Sault Ste. Marie.

Plans drawn for a new office building to be erected by the Geo. C. Newton Co., to be at least 2-story, and possibly three, and to cost \$25,000.

## LINCOLN, NEB.

#### BUILDING PERMITS.

Henry W. Enders, Press Co, 1749 Wash. st.	3,000
E. A. Gehrke, 3253 Q st.	2,200
Edward A. Christian, 329 S. 27th st., frame residence.	1,800
W. B. Shurtleff, 3009 F st., frame residence.	1,200
E. C. Barker, 2756 F st., frame house.	1,000



**Employers' Liability Insurance  
Surety and Fidelity Bonds.**

## FRED L. GRAY COMPANY

THE LARGEST AGENCY OF ITS KIND  
IN THE NORTHWEST

More than 50,000 personal  
injury cases handled for  
contractors and others  
since 1892.

Security Bank Bldg.,

MINNEAPOLIS

### PROPOSAL ADVERTISING FOR BIDS

#### NOTICE FOR PROPOSALS.

Paving, Indianalo, Iowa.

W. A. Graves, City Clerk, will receive bids at his office in Indianola, Iowa, up to seven o'clock, P. M., Monday evening, March 23, for approximately 40,000 yards of paving to be laid on the streets and 4,100 yards in the alleys. Bids will be taken for the following kinds of pavement; 1st, Warren's Bitulithic; 2d, Asphaltic concrete; 3d, Sheet asphalt, under both Closed and open Specifications, and 4th, Portland Cement Concrete, both plain and reinforced, and also for approximately 32,000 feet of combined curb and gutter, and also for 32,000 feet of curb, 6x20-inch section, both to be built of Portland Cement Concrete, and also approximately 72 catch basins complete with cast inlets,

and approximately 1,200 feet of sewer pipe, ranging from 8-inch to 24-inch in diameter. Plans may be seen at the office of the City Clerk or at the office of the Engineer, or will be mailed out to bidder on receipt of Ten dollars, Five dollars of which will be returned when the plans are returned to the Engineer.

A. H. GILLILAND, City Engineer.  
Engineer in charge of the work.

### Want Ads Special Notices

#### POSITION WANTED.

As carpenter foreman. Am prepared to handle any class of building work; can manage men; understand plans and

know material; will go in the country if desired; good recommendation. Care M. 14, Improvement Bulletin.

#### FOR SALE—NEOSTYLE.

Good Rotary Neostyle, in first class condition, for sale cheap. One of the best machines made for getting out circular letters. Call or write W. F. Chapman, 912 Lumber Exchange, Minneapolis; N. W. Tel. Main 3902.

#### FOR SALE.

Eureka Continuous Concrete Mixer, 8 to 15 yards hourly capacity, slightly used. A-1 shape, complete with 3½-horsepower New-Way Air Cooled Gasoline Engine, Rotary Pump, etc. Outfit mounted on set of metal trucks for convenience in moving. A bargain at \$250.00. See it at Port Huron Machinery Co., 414 1st st. N.

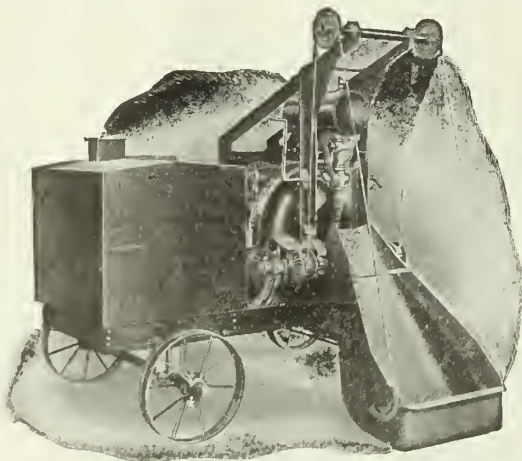
#### DRAUGHTSMAN WANTED.

An experienced draughtsman for general architectural designing, detailing and tracing, with or without a helper, on Church, School, Opera, Business and Residence work, etc. Married man preferred. Must be of good habits; a pusher and steady worker. State experience, how educated with full history of all the past time employed; where, for whom, and wages received; also, what wages expected. Send photograph, sample of tracing and lettering, with full particulars, and when ready to start work with your application.

I have a steady job the year round for the party able to fill the position at a reasonable rate of compensation. Write at once—Position open now. About 180 miles S. W. of Minneapolis. Address "Position Wanted" care of Improvement Bulletin, Minneapolis, Minn.

## Mixer Facts

Every Purchaser of Concrete Mixers Should Know the Importance of Thorough and Rapid Mixing, and the Durability of the Mixer.



### THE KOEHRING MIXER

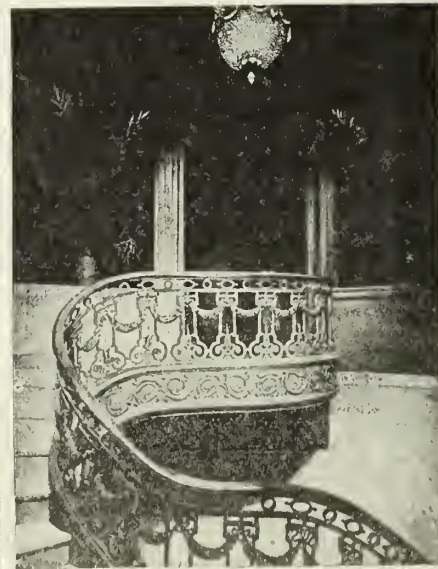
See These Machines, Four Different Sizes, Now In Stock, At Our Midway Warehouse.

Phone Us For Appointment Today. N. W. Main 3782, T. S. Center 1586. Get Our New Year's Guarantee.

### KOEHRING MACHINE COMPANY

615-619 Germania Building Milwaukee, Wis.  
N. W. Branch Office, H. B. Jones, Dist. Mgr.,  
350-352 Security Bank Bldg. Minneapolis

## Ornamental Iron & Bronze



Stairs,  
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Lamp  
Standards  
Mar-  
quises,  
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GATES, GRILLS, FENCING  
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:: OFFICE FIXTURES

**FLOUR CITY ORNAMENTAL  
IRON WORKS** MINNEAPOLIS, MINN.



ington Park Heights. Also, for a bungalow, owner's name withheld, to be erected in S. Milwaukee; frame construction, brick foundation, 26x42, vapor heating; cost, \$4,000. These architects are now ready for bids for erection of a duplex flat on Buffum st., between Burleigh st. and Auer av., for Geo. Neubauer; frame construction, brick foundation, 24x48, furnace heating, art and plate glass.

Architect Geo. C. Ehlers, 721 3d st., will take bids for a store and factory building to be erected on 3d st., between Lloyd st. and Garfield av.; of reinforced concrete construction, 3-story and basement, 25x106. The same architect has awarded contracts for erecting three duplex flat buildings for Walter Kloth; excavation and mason, August Rickman & Son; carpenter, Ehlenfeld Bros.; concrete and cement, Aug. Hackbarth; plumbing, L. R. Stollberg & Co.; painting and glazing, Carl Lehman & Son.

Architects Martin Tullgren & Sons, 133 2d st., have awarded the following contracts in addition to those previously reported: apartment of Julius Strauss at Webster and Farwell; tile, Badger Tile & Mantle Co.; plumbing and heating, Thompson & Harriman. Garage of Thompson & Harriman: sheet metal, Romberger; structural iron work, Northwestern Bridge & Iron Co. Tile work for the apartments of Martin Tullgren & Sons and Oscar Brochman awarded the Badger Tile & Mantle Co.

Architect Stanley F. Kadow, 988 Kinnickinnic av., has awarded contracts on a store and flat building for H. Jensen, to be erected at Delaware and Northwestern avs.; carpenter, A. J. Bachs; mason, Herman Wolff; plaster, A. A. Morgenroth; plumbing, J. B. Julien; asbestos roofing, Nic Stollenwerk; painting, Peter Lesch. In addition to previously reported contracts on store and flat for Michael Wargin, this architect has awarded the heating to Kaufman-Haas Heating Co.

The Wisconsin Telephone Co. contemplates a 5-story, 48x150, telephone exchange building adjoining the Broadway Exchange; cost \$200,000; also a \$20,000 exchange on the south side at 16th av. and Lapham st. At the annual meeting Mar. 2, an appropriation for extension and additions of \$2,250,000 was made; to be used for the new structures mentioned and for other work in Milwaukee and Wisconsin.

Architect H. C. Hensel, Caswell block, is taking bids for the erection of a residence for Geo. Janicki on Weil st., near Ring st.; to be frame and stucco, cement block foundation, 26x40; hot water heat, composition tile roofing. The same architect is also now ready for bids on erecting a residence and a garage on Whitefish Bay road; to be 43x60, vapor heating, brick and tile construction; cost \$30,000.

Architects Kirchoff & Rose, Majestic building, have awarded the excavation work to Peter Froemming on a business block to be erected at 382 E. Water st., for E. Rohart; plans for construction work will be ready about March 16, calling for a reinforced concrete structure, 50x120, 6-story and basement; to replace store occupied by Goodyear Rubber Co., destroyed by fire in fall.

Architects Schnetzky & Son, 1320 Cedar st., are taking bids on painting and decorating the interior and exterior of the Germania building, Wells, West Water and 2d sts. The same architects are revising plans for the office building and warehouse for the Standard Paper Co.; to be 5-story and basement, 150x120, reinforced concrete and brick construction; bids in about a month.

Architects Christiansen & Kemnitz, 87 Howell av., are working on plans for a duplex flat to be erected on Kinnickinnic av., near Rusk av., for Adam Koebel; to be of frame construction, with brick foundation, 24x46, hot water heating; cost \$6,000.

Architect John Menge, Jr., Matthews building, is working on plans for a duplex flat to be erected on 19th st., between Hadley and Locust sts.; to be frame construction, with brick foundation, 24x50, hot water heating; cost \$4,500; bids after March 9.

Architect Gustave Dick, 811 State st., has awarded contracts on a residence for Miss Schoen, to be erected on Vine st.; carpenter, C. A. Bauer; mason, Schmidt & Fehst; plaster, Chas. E. Bartz; plumbing and heating, Wink & Schmitt.

Architect H. W. Buemming, 521 Jackson st., has awarded contracts on the residence and a garage for Mr. Mandell on 26th st., between Grand av. and Wells st.; carpenter, E. Wilkenon; mason, C. Breest; plumbing, O. H. Dittmer.

## WINNIPEG, MAN.

*Notes Arranged Alphabetically by States.*

Thirty-five buildings costing at least \$50,000 each, that were held up last season for lack of funds to construct them, will be erected this summer, according to Building Inspector Rogers in speaking to members of board of control.

Tenders are wanted to March 5, by chairman, board of control, for supply of labor and material required in erection

of an addition to the North End police station for gas testing laboratory.

Tenders are wanted to March 23, by chairman, board of control, for supply on delivery on rails of Lac Du Bonnet station, Man., one locomotive, complete with tender and snow-plow.

The following building permit was issued: W. Popeskie, dwelling on the north side of Barrows av., between Salter and Powers sts., to cost \$3,200.

Plans are being prepared for erection of three schools for this year, at office of school board. Another school may also be erected this year.

Tenders are wanted to March 5, by chairman, board of control, for supply and erection of fire escapes for King George isolation hospital.

Tenders will shortly be called by commissioners for placing concrete floors in three fire halls; to cost \$9,000.

## OMAHA, NEB.

Mail news to Minneapolis office not later than Wednesday.

J. W. Wood has let contract to Chas. A. Forshund for erection of Work has started on excavation for four modern bungalows, for Payne & Slater Co.

Hastings & Heyden are having plans drawn for a 4-story apartment; will contain two 3-room apartments and two 4-room apartments each floor, modern.

tion of a bungalow at Rawiston; Burd F. Miller, architect, 723 Brandeis theater, Omaha, Neb.

Sunderland Bros. Co., Omaha, Neb., were awarded contract for furnishing all of terra cotta for the new Fontanelle hotel; cost about \$20,000.

Announcement was made by Arthur D. Brandeis, that he will erect four new buildings; cost a quarter of a million dollars in Omaha.

A general improvement and remodeling of the Hayden store is under way, under supervision of James Hayden.

## FARGO, NO. DAK.

Mail or telephone news not later than Wednesday.

Bids received until March 31, 10.30 a. m., for construction of a 4-room school building at Pickert, N. D., 2-story full basement and steam heating plant, separate bids for heating; check for 5 per cent; plans on file at office of Builders' Exchange, Fargo, N. D.; and clerk's office, J. K. Sund, clerk.

Contract awarded to A. J. Fridlund, of this city, for erection of the new branch house, of the P. Schoenhofer Brewing Co., Mr. Wilhelm, manager; work started; 65x80, 1-story, plate glass front, Hebron pressed brick; plans drawn by Architect Fridlund, Fargo.

Bids on school building have not been called and no action taken by board of education beyond purchasing site; E. G. Guthrie, secretary, Fargo, N. D.

Hancock Bros., architects, have been requested to submit sketch of vault to be erected at SE. corner of courthouse, in Cooperstown, N. D.

Proposition is being discussed for erection of a boys' dormitory at the agriculture college, funds to be raised during coming summer.

## SIoux CITY, IOWA

Sioux City Office: 310 Iowa Building; R. V. Sager, Representative.

### BUILDING PERMITS.

Fred Anderson, frame dwl., Lawn Ridge.....	1,500
Carrie M. Grant, frame dwl., Highland Park add.....	1,000
A. Jensen, frame dwl., Easley's add.....	4,000
Dr. J. Herman, two frame dwls., Hignan's add.....	13,000
B. E. Short, two frame dwls., Cole's add.....	3,500
S. M. Greding, two frame dwls., Hedge's Table add.....	8,000

Bids will be opened on the Elk Point school at Elk Point, S. D., on March 16, Chas. Stickney will receive bids. Bids for the school at Maskell, Neb., are being taken; Elmer Wright is receiving the bids; bids are being taken on the school at Early, Iowa, William Determan is receiving the bids. Bids are also being taken on the opera house, store and office building at Lake View, Iowa; L. L. Lawrence is receiving the bids. Geo. W. Burkhead, architect, Grain Exchange building.

Plans are in the hands of the contractors for figures for the residence for John A. Newton. Bids will probably be received till March 10; Wm. L. Steele, architect, United Bank building.

Beuttler & Arnold, architects, Security building, are drawing plans for a residence for E. W. Babb at Waconda, S. D.;



## KEEP TALKING---LINO FELT--"Between you and the weather"

If the cold of winter prevents you working on the outside, there is still time to save your customer money on his fuel bill by putting LINO FELT between or over the studding. This is Inside information. Talk to him about putting LINO FELT in the walls and roof of his home not only because he can save fuel in winter, but because LINO FELT keeps the heat out in summer, and the sound waves stop when they meet LINO FELT, insuring Comfort the year around.

UNION FIBRE COMPANY, --:-- WINONA, MINNESOTA

### PROPOSAL ADVERTISING FOR BIDS

#### FILTER PLANT.

Huron, S. D., March 6, 1914.

Sealed proposals will be received by the board of commissioners of the city of Huron, S. D., until 2 p. m., on the 26th day of March, 1914, for the construction of a mechanical gravity filter plant of one and one-half (1½) million gallons daily capacity, in accordance with the plans and specifications therefor, prepared by L. P. Wolff, consulting engineer, now on file in the office of the city auditor.

The work will be divided into four separate portions or items as follows:

ITEM ONE—The filter plant building and pump pit.

ITEM TWO—Filter equipment.

ITEM THREE—Intake suction well and miscellaneous piping outside of building.

ITEM FOUR—One motor driven and one engine driven centrifugal pump and one sixty-six (66) inch by sixteen (16) foot horizontal tubular boiler.

Separate bids may be made for one or more of the above items and separate contracts awarded therefor.

All bids must be on blank forms furnished for that purpose and each bid

must be accompanied by a certified check for a sum equal to 10 per cent of the amount of the bid, made payable unconditionally to the order of the city treasurer, as a guarantee of good faith.

Plans and specifications may be seen and blank forms of proposals obtained at the offices of the undersigned and of L. P. Wolff, consulting engineer, 1000 Germania Life Building, St. Paul, Minn. The right is reserved to reject any or all bids.

F. F. OVIATT,  
City Auditor.

#### NOTICE TO CONTRACTORS.

School, Cooperstown, N. D.

Sealed proposals will be received by the clerk of the Board of Education at Cooperstown, N. D., up to 1:30 P. M., of Friday, April 3, 1914, for the erection and completion of a school building, to-wit:

1st, for building complete, without heating and ventilating apparatus.

2nd, bids may be made separately, to-wit: (a) for material alone; (b) for labor alone.

Proposals for steam heating and ven-

tilating apparatus will be received at the same time.

Plans and specifications may be seen after March 18th, with the clerk of the school board at Cooperstown, at the Fargo Builders' Exchange, and at the office of the Architects.

Each bid on the building, labor or material to be accompanied by a certified check for \$500.00, and each bid on heating and ventilating systems with a certified check for \$200.00, made payable to the clerk of the Board.

The checks of successful bidders will be forfeited to the school board should they fail to enter into contract and furnish satisfactory bonds, in accordance with state law, for the faithful execution of the work.

Bids must be plainly marked on the outside of envelope, "Sealed Bid for ....." (specifying for what part of work).

The right to reject any or all bids is reserved.

By order of the School Board,  
CHAS. BURSETH, President  
OSCAR D. PURINTON, Clerk.  
HANCOCK BROS., Architects.

## FREE HELP WANTED ADVERTISEMENTS

Engineer, age 33, married, associate member American Society of Civil Engineers wishes to locate in Minneapolis; 10 years' experience in construction; last five years estimating, designing and superintending building work, reinforced concrete and other classes: percentage basis preferred; address XYZ, Improvement Bulletin.

#### POSITION WANTED.

Wanted—Permanent position. Architectural draftsman and superintendent. Eleven years' experience. Clean habits. Ability to manage office.

F. A. HARRIS,  
836 Penn av.,  
Des Moines, Iowa.

State your "want" in twenty words and attach the below coupon, properly filled out.

This offer *does not* apply to advertisements for persons to handle goods on commission or to advertisements soliciting business patronage.

#### STREET AND ROAD WORK.

Idaho, Cour d' Alene—Election March 11, to vote on question of \$200,000 bonds for good roads.

Minn., Duluth—Bids for road oil, opened by Roderick Murchison, head of the division of public works, as follows: Northwestern Oil Co., Superior, 10,000 gallons of 60 per cent asphaltum road oil, \$.0525 a gallon, f. o. b. Duluth; 140,000 gallons, 40 per cent, \$.05 a gallon. Pure Oil Co., Minneapolis, 140,000 gallons, 42 per cent, \$.0443 per gallon; 10,000 gallons, 65 per cent, \$.065 per gallon, f. o. b., Duluth. John Baker, Jr., Chicago, 140,000 gallons, 40 per cent, \$.0633 and \$.0617 per gallon, 10,000 gallons, 60 per cent, \$.0633 and \$.617, f. o. b. Duluth. Two grades were specified. Standard Oil Co., Duluth, 14,000 gallons, 40 per cent, \$.05 a gallon; 10,000 gallons, 60 per cent, \$.0525.

Minn., St. Cloud—Bidders for the curbing of 7th and 8th avs. S., were Henry Bjork and Gust Carlson, Carlson's being the lowest.

S. D., Sioux Falls—Hearing March 30, on an additional amount of paving on Duluth av., to that heretofore contemplated, embracing the district from 1st to 3d st.; Walter C. Leyse, city auditor.

Wash., Olympia—According to plans laid out in the office of William R. Roy, state highway commissioner, within the next few months the state highway commissioner will award contracts for highway construction, totaling approximately \$750,000. Contracts already let amount to nearly \$1,000,000, some of the work being under construction at the present time, and some of it completed.

Wis., Boscobel—Alonzo Kinder, chairman of Scott county, states that the town of Marietta has made final arrangements

for the expenditure of \$4,080 in the excavation of the new road up Shockley hill to Maple Ridge, the expense to be borne by the state, county and town.

#### MILWAUKEE.

##### BUILDING PERMITS.

T. Robert, Folsom and Bartlett, apartments.....	10,000
Frank Harder, 802 25th, flat.....	3,000
C. Kowski, 406 Hermann st., alterations.....	1,200
Fred Barr, 910 45th st., cottage.....	2,000
J. Guschl, 51st and Pabst av., flat.....	5,500
W. Kromberger, 1312 Chestnut st., alterations.....	1,525
J. Jungbluth, 8th near Concordia, cottage.....	2,500
H. Tews, 1st near Center, flat.....	6,000
K. Janowski, 945 14th av., flat.....	3,780
J. Ernest, 755 24th av., alterations.....	1,000
F. Barnekow, 1565 20th, dwl.....	2,600
M. Rackocy, 964 Well, apartments.....	7,500
Pellbach Motor Co., Well near Chambers, alterations.....	1,500
Joseph Schlitz Brewing Co., 4th and Galena, garage.....	25,000
Frank Bething, 549 21st av., additions.....	2,500
J. Straus, 541 Farwell av., apartments.....	65,000
O. Bachmann, Prospect and Webster pl., apartment.....	50,000
Ernest Demin, 12th and Galena, store, flat and offices.....	25,000
Miller Brewing Co., 538 7th av., warehouse.....	3,500
M. Tulgren & Sons, Prospect av. and Kane place, apartments.....	60,000
William Lieser, W. 24th st. near Hadley, flat.....	4,000
A. P. Kunenzelmann, 3d av. near Mitchell, veneered.....	25,000
J. Strus, 541 Darwell av., apartments.....	65,000
O. Bachmann, Prospect and Webster place, apartments.....	50,000
Ernest Demin, 12th and Galena st., store, flat and offices.....	25,000

Architect F. F. Drolshagen, Camp building, is taking bids on a residence to be erected at 61st and Cedar sts., for Frank Halladay; to be 28x34, of stucco construction, with brick or concrete basement.

Architects Herbst & Hufschmidt, Caswell block, are preparing plans for a store building to be erected on North av.



26x36, 2-story, frame, fireplace, hot water heat, plumbing; cost \$5,000.

Beuttler & Arnold, architects, Security building, are drawing plans for a garage for Geo. C. Call, 75x150 and 50x75; mill construction, composition roof, brick walls, plate glass front.

Wm. L. Steele, architect, United Bank building, has completed plans for a dairy barn for Dr. L. C. Mead at the South Dakota hospital, Yankton; reinforced concrete construction.

Contract for the residence for B. F. Bryson has been let to Hammond Bros., for \$3,200, including plumbing and heating; Geo. W. Burkhead, architect, Grain Exchange building.

Wm. L. Steele, architect, United Bank building, is drawing plans for a residence for W. H. Hotze in Smith Villa; 26x28, 2-story, frame; cost about \$4,000.

## DES MOINES, IOWA

Bert N. Mills, Representative, 310 Hubbell Building.

\*J. M. Roland will build a new apartment house this spring on W. 23d st. near Drake Park av.; plans and specifications now are being made by Morris & Thorne of this city; tile vestibules, bath rooms, and vacuum cleaner and garbage crematory plant; plumbing and heating.

\*D. F. Givens, president of the board of trustees of the Central Church of Christ, this week presented to the board the plans for a \$30,000 addition to the church, work will begin April 1.

\*Kucharo & Lewis, with a bid of \$12,961, were awarded the contract for addition to the Cattell school; plumbing and heating to McAuley Plumbing Co.

\*Hollenbeck Bros. will build a new business block to cost \$5,000 at 1200 W. Grand av., this spring; it will be 2-story, brick.

The school board is making plans for an addition to Longfellow school.

\*Chariton has voted unanimously for 30 blocks of new paving this year.

\*Stock subscriptions of \$225,000 have been secured in Muscatine for the building of a new hotel. The improvement now is assured. Plans for a 7-story fireproof building are being drawn by Hyland & Green of Chicago.

\*F. H. Gifford of Grinnell, purchased Grinnell homestead there and will remodel it for addition to the Monroe hotel.

\*A mass meeting of citizens at Guthrie Center this week instructed the school board to secure plans and specifications for a new high school building to cost about \$40,000.

## STREET AND ROAD WORK

*Notes Arranged Alphabetically by States.*

**Alt., Calgary**—An automobile speedway, club house, and grandstand will be built in Calgary this coming spring by the Seattle Motor Speedway Corporation of San Francisco. Cost in the neighborhood of \$200,000, and it is expected that the track and buildings will be completed by next fall at the latest. William G. Brien for particulars.

**Iowa, Boone**—The Iowa Light & Railway Co. has submitted plans to the council for paving and track construction along its line on 6th st., from Greene to Monana. The plans contemplate a concrete curb 6 inches by 20 inches on both sides of the track, crushed stone foundation 6 inches deep below ties, cedar ties, sand cushion between rails for pavement, brick pavement between and outside of rails, asphaltic filler.

**Iowa, Clarinda**—Hearing March 17, on the grading, curbing and paving of Lincoln av. and on 13th st.; T. A. Wilson, city clerk.

**Iowa, Des Moines**—Hearing March 25, for grading and paving with an 8-inch Portland cement and concrete pavement on SE. 6th st., from Indianola av. to E. Court av.; also, at same time, for paving with sheet asphalt, etc., on Des Moines st., from E. 16th to E. 18th st.; also at same time, for paving with an 8-inch Portland cement concrete pavement on W. 23d st., from Mann's sub-division to Olive av.; Horace Susong, city clerk.

**Iowa, Missouri Valley**—The city council has decided to go ahead with the paving, according to the resolution adopted Jan. 6; address city clerk.

**Iowa, Sioux City**—The city council has decided to pave Rebecca st.; also for paving on Summit st., McDonald av., Main st., and various alleys. Address city clerk.

**Minn., Mankato**—Bids were rejected for grading, graveling and boulevarding on N. 4th and Madison, opened March 2; F. W. Bates, city clerk.

**Minn., Crookston**—Bidders for the paving of 6 blocks of Ash st., Spendley st. and Holly av., were as follows: The

Westrumite Co., bid \$2.09 per square yard for the paving, 50c cubic yard for the earth it was necessary to remove some distance, \$50 each for the catch basins, \$12, for the manholes and \$10 for the lamp posts and enclosed a certified check for \$2,000. C. C. Sloan bid \$2.03 per yard for the paving, 35c per cubic yard for the removal of surplus dirt, \$54.80 for catch basins, \$12.10 for manholes, \$5.55 for setting lamp posts and frames. With his bid was a certified check for \$1,600.

**Minn., New Ulm**—Four blocks on Minnesota st. have been recommended for paving by a meeting of property owners and a committee has been appointed to look into the matter further; address the city clerk.

**Minn., Northfield**—At a recent meeting of the board of county commissioners the committee on the purchase of road machinery was instructed to notify the several machinery concerns to submit prices and propositions for the purchase of one traction engine; Frank M. Kaisersatt, auditor of Rice county.

**Minn., Sandstone**—Hearing March 23 for the establishment, construction and improvement of a certain state rural highway in Pine county, but connecting with similar roads in other counties; W. H. Hamlin, auditor of Pine county.

**Minn., Winona**—H. B. Walling, city engineer, has been instructed to prepare plans and specifications for both brick and concrete for a highway 16 feet wide; address city clerk.

**Mont., Bozeman**—Hearing March 19, on paving of Grand av., estimated to cost \$38,640; A. M. Bradenburg, city clerk.

**Mont., Lewistown**—The council will continue the paving on Main st., 1st av. and Janeaux st., in all about 18 blocks; address city clerk.

**N. D., Fargo**—City Engineer Anders has been instructed to prepare plans and specifications for the re-paving of the business section of Broadway between the Great Northern and the Northern Pacific tracks; address city clerk.

**Wis., Burlington**—P. J. Hurtgen, city engineer, is preparing plans for the construction of 15,000 square yards of paving.

**Wis., Milwaukee**—The lowest bid on 1,500 square yards of creosote block paving which will be laid this year is that of the Chicago Creosoting Co., which offers to furnish the material for \$1.69 a square yard. This includes 45,000 lineal feet of creosoted strips. This company furnished all of the block used last year. Other bids were \$2 and \$2.12.

**Wis., Superior**—J. M. Morriset, highway commissioner, proposes the purchase of traction engines and modern road machinery in order to make the most of the \$83,000 that Douglas county will spend this year on county roads.

**Wis., Two Rivers**—Asphalt macadam is the material that will probably be used in the contemplated paving here; address city clerk.

**Wis., West Allis**—City engineer will prepare an estimate of the cost of paving Greenfield av., from 51st to 66th avs.; address city clerk.

### BIDS WANTED.

**Iowa, Indianola**—Bids received by W. A. Graves, city clerk, until 7 p. m., March 23, for 40,000 yards of paving on streets and 4,000 yards in alleys; bids taken on Warren's bitulithic, asphaltic concrete, sheet asphalt and Portland cement; also 32,000 feet curb, and 32,000 feet combined curb and gutter; also for sewer work, catch basins, etc. Plans, \$10, of which \$5 will be returned when plans are sent back; A. H. Gilliland, city engineer. Officially advertised in this issue of the Improvement Bulletin.

**Iowa, Marion**—Bids received by city clerk until March 20, for 15,000 square yards of 1:3:6 6-inch concrete pavement.

**Iowa, Pella**—Bids received by A. C. Kuyper, city clerk, until March 18, for paving, requiring about 37,000 square yards, concrete, Dolarway, bitulithic asphalt concrete, sheet asphalt or brick blocks on concrete base; also, 2,800 lineal feet combined concrete curb and gutter; B. Schreiner, engineer, Oskaloosa, Iowa.

**Iowa, Pocahontas**—Bids received by L. O'Donnell, auditor of Pocahontas county, until 1 p. m., March 17, for oil tractors graders, 10 (and 12-foot blades), and culverts, (either cast iron or corrugated). Officially advertised in this issue of the Improvement Bulletin.

**Iowa, West Union**—Bids received by R. P. Camp, city clerk, about April 1, for approximately 28,000 square yards of paving, bids to be on either concrete, asphaltic concrete, bitulithic, brick and creosote blocks. M. Tschirgi & Sons, engineers, Cedar Rapids, Iowa.

**Minn., Ada**—Bids received by D. E. Fulton, auditor of Norman county, until 2 p. m., March 27, for the construction of 10 miles of state road No. 1, in either one or two contracts, grading in one contract and graveling and culverts in the other. Check for 5 per cent. Officially advertised in this issue of the Improvement Bulletin.

**Minn., Litchfield**—Bids received by A. O. Palmquist, auditor of Meeker county, until 10 a. m., March 14, for a 30-h. p. gas tractor.

**Minn., Luverne**—Bids received by S. C. Rea, city recorder, until 7:30 p. m., March 18, for a combined curb and gutter



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on Main st., from Estey to Spring st.; L. P. Wolff, engineer; check for 10 per cent.

**Minn., Mora**—Bids received by Anton Peterson, auditor of Kanabec county, until 10 a. m., March 20, for grading, filling and turnpiking, plans and specifications for which may be seen at the office of the county auditor or at the office of the state highway commissioner at St. Paul; check for 5 per cent.

**Minn., Ortonville**—Bids received by A. V. Randall, auditor of Big Stone county, until 10 a. m., March 17, for all corrugated galvanized metal culverts to be used on state roads in said county during 1914, bids to cover standard sizes of pipe ranging from 12 inches in diameter to 48-inch; specifications may be seen at the office of the state highway commissioner, St. Paul; check for \$150.

**Minn., St. Paul**—Bids received by Oscar Claussen, commissioner of public works, until noon, March 10, for one 14 cubic foot street paving concrete mixer and one 10 to 12 cubic foot curb concrete mixer; bond or check for 10 per cent. Also, at the same time, for a new or second hand  $\frac{3}{4}$ -yard dipper steam shovel; also, at same time, for one 3, 4 or 5 ton auto truck and one 1 or  $1\frac{1}{2}$ -ton auto truck; also, at same time, for one 8-ton Tandem road roller and one 5 or 6-ton Tandem road roller; bond in each case in the sum of 20 per cent, with two sureties or check for 10 per cent.

**Minn., St. Paul**—Bids received by Leonard C. Seamer, clerk, board of public works, until 2 p. m., March 12, for the grading of Roy st.; also at same time, for grading of Doswell st.; also at same time, for grading of Hendon st.; also until March 16, for grading on Prior av.; also, at same time, for grading on Princeton av.; also at same time, for grading on Fairmount av.; also at same time for grading on Stinson st.; also at same time, for grading on Chatsworth st.; also, at same time, for grading alley in Lloyd's sub-division; also at same time, for grading Saratoga av.; bond with at least two sureties or check for 10 per cent.

**Minn., Walker**—Bids received by I. P. Byhre, auditor of Cass county, until March 28, for state rural highway No. 45 in Cass county, the road being 23.6 miles long, and requiring 52.4 acres clearing, 104.85 acres grubbing, 27,233 cubic yards grading, 10.25 miles turnpiking 50,873 cubic yards ditching, 20,031 cubic yards surfacing, 2,030 feet of corrugated culverts, and two wooden culverts; check for 10 per cent; bids to be opened March 3, were rejected, there having been but one bidder, King & Randquist, Duluth, at \$63,194.

**N. D., Lakota**—Bids received by Peter Sjurseth, auditor of Nelson county, for different sized culverts that the county may require for the year; no date given; T. R. Swendseid is chairman of the board of commissioners.

**N. D., Towner**—Bids received by Chas. E. Fouts, auditor of McHenry county, until March 17, for the purchase of an elevator grader.

**S. D., Deadwood**—Bids received by D. R. Gustafson, county auditor, until 10 a. m., March 20, for the excavation of 28,650 cubic yards on the Strawberry Gulch improvement, 2,645 cubic yards on the Wasp No. 2 improvement and 2,580 cubic yards on the Terry Road improvement; check for 10 per cent.

**Wis., Appleton**—Bids received by the city clerk, until 9 a. m., March 13, for paving on Lake, South Elm, County, North Elm and 7th st., and two alleys, to be concrete foundation, and either creosoted block, brick, Nos. 1, 2 and 3 concrete, sand stone, block, asphalt block, Nos. 1, 2 and 3 sheet asphalt, asphalt macadam, bitulithic, westrumite asphalt and rocmac; a bond of 30 per cent of the bid.

**Wis., Fond du Lac**—Bids received by Alfred S. Wilkinson, county clerk, until 10 a. m., March 18, for the following road machinery: 1 road roller, 2 rock crushers and bins, 1 road grader, 1 rooter plow, 1 road plow, 3 dump wagons, 3 slip scrapers, 1 sprinkling wagon.

**Wis., Kenosha**—Bids received by D. O. Head, chairman of the street assessment committee, until 2 p. m., March 20, for improving Dayton st., from Freemont to Howland avs.; bond required.

**Wis., Rice Lake**—Bids received by city clerk until March 13, for 4 blocks of paving, bids taken on creosote blocks, brick and concrete.

#### CONTRACTS AWARDED.

**Ill., East Moline**—Bidders for the paving of 16th av. were as follows. McCarthy Improvement Co., Davenport, Iowa, \$78,000, and the Central Engineering Co., Rock Island, Ill., \$77,954 (awarded).

**Iowa, Corydon**—Contract has been made with the Gallion Iron Works branch office at Des Moines, Iowa, for one carload or iron boiler culverts, and with the Yeidler Concrete Pipe Co., Muscatine, Iowa, for two carloads. Other bidders were the Corydon Lumber Co., Midland Cement Co., Ottumwa, J. Rosenbaum & Son, Centerville, Wheeler Lumber Co., Des Moines, and the Clinton B. & I. Works, Clinton, Iowa.

**Iowa, Keokuk**—Contract has been made with Cameron, Joyce & Co., for paving Commercial alley, etc., at \$1.53 per square yard; contract has been made with the Keokuk Quarry

& Construction Co., for cement curbing on Commercial alley at 35.5c per lineal foot; contract with T. F. McManus & Co., for the paving of 17th st. with concrete, also for the resurfacing of Johnson st. with 2.5 inches of concrete with an asphalt binder, and various other jobs.

**Iowa, Sac City**—Contracts for paving have been let as follows: To the Ford Paving Co., of Cedar Rapids, 28,985 yards of asphaltic concrete at \$1.61 $\frac{1}{2}$  per square yard; to be Western Construction Co., of Iowa City, 3,220 square yards of vitrified brick blocks, with sand filler, at \$1.96 $\frac{1}{2}$  per square yard, and 5,435 yards of concrete at \$1.24 per square yard. The work on these contracts is to begin April 15th.

**Iowa, Sioux City**—Contracts for paving have been let to the M. L. Flinn Paving Co., amounting to \$34,591; Hanlon & Oakes were awarded contracts for \$32,128; Jensen & Krage were awarded contracts for \$24,390.

**Iowa, Webster City**—Contract with Zitterell & Sullivan for paving, curb and gutter on all the streets to be improved this year at \$1.70 per square yard, the material to be asphaltic concrete, class B.

**Minn., St. Cloud**—Contract for paving with concrete on E. St. Germain st., has been let to the Grand Forks Concrete Co. at 75c per cubic yard, for grading, \$1.18 for one-course paving and \$1.25 for two-course paving. Other bidders were: Nels E. Henning, St. Cloud, at 50c per cubic yard for grading, \$1.65 for 1-course paving and \$1.55 for 2-course paving; Hanson & Oakes, Minneapolis, 50c per cubic yard for grading, \$1.28 for 1-course paving and \$1.31 for 2-course paving; Fielding & Shepley, St. Paul, 46c per cubic yard for grading, \$1.22 for 1-course paving and \$1.34 for 2-course; C. C. Deering, St. Cloud, 50c for grading, \$1.65 for 1-course and \$1.70 for 2-course.

**Minn., St. Paul**—Contract for grading, claying and graveling a portion of the New Brighton road north of the city was awarded to Garrick Bros. for \$2,256.42.

**Neb., Ralston**—Contract with Leffer & Co., South Omaha, for four blocks of paving.

**Ont., Port Arthur**—Contract for a macadam road on Algoma st. has been made with Hugh Wray, city, requiring 37,000 square yards.

**Wis., Ashland**—Contract has been made with the Lake Superior Iron & Chemical Co. for all slag from the blast furnaces, the total cost for the year being \$11,124; it is used for road building and is said to be practically indestructible.

**Wis., Burlington**—Contract with Thompson Bros. for grading, oiling and macadamizing White av. and constructing cement walks and ten culverts, at \$16,935.

**Wis., Chilton**—Contracts have been made as follows for the purchase of road machinery: One ten ton single cylinder road roller, four-wheel scrapers, two step scrapers, and wheel for crusher from the Austin Western Road Machine Co., of Chicago; one reversible grader, two simplex giant graders, one No. 3 road plow, one road drag, two drag scrapers, No. 1, with runners and two Rutter flows of the Russell Grader Manufacturing Co., Minneapolis, Minn.; one 16 bbl. steel tank with sprinkler from J. I. Case Co., of Racine, and one Monarch sprinkling wagon from the Good Roads Machinery Co., of Fort Wayne, Ind. The purchase amounted in all in the neighborhood of five thousands dollars.

**Wis., Shawano**—Contracts for road machinery have been made as follows by the county board: Huebner Manufacturing Co., of Marion, Ohio, roller and sprinkler; the crusher will be purchased of the J. I. Case Co., of Racine; 12-wheel scrapers and two plows from the Good Roads Machinery Co., and J. D. Adams Co. got the new road grader.

## DRAINAGE AND IRRIGATION

*Notes Arranged Alphabetically by States.*

**Iowa, Davenport**—A. M. Compton, supervising engineer, will ask \$75,000 for improving Davenport levee.

**Iowa, Northwood**—Report of permanent survey of district 11, this county, is in hands of supervisors; 40,000 acres, ditch from north line of county to Bolan, then from Northwood to Meltonville; estimated cost \$130,000; about 400,000 carloads for closed work; consisting of 200,000 pieces of tile.

**Minn., Crookston**—Hearing March 25, 10 a. m., on proposed county ditch 90; H. J. Welte, auditor, Polk county.

**Minn., Stillwater**—Final hearing on judicial ditch No. 3, Washington and Anoka county postponed to March 9.

**Mont., Forsythe**—Report of Chas. E. Taber, engineer, to board of commissioners, of Hysham irrigation district on feasibility of high ditch, includes estimates as follows: power house, complete \$15,046; machinery, \$52,196; 30-inch wood stave pipe, \$8,409; 54-inch wood stave pipe, \$8,550; anchorage for pipes \$720; excavation, 15,000 yards at 15 cents for high head canal; excavation for low head 80,000 yards, \$12,000; extras for canal \$1,375; bridges, culverts, high life, \$11,788;



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**Mont., Saco**—Allotments for Milk River project include \$470,000 for divers works; \$345,000 for canal system; Nelson reservoir \$500,000 St. Mary's storage, Milk River, roads \$10,170; buildings \$11,198; telephones \$2,000, storage \$173,000; diversion works \$680,000, canal \$558,000.

**S. D., Belle Fourche**—About \$100,000 has been allotted to the Belle Fourche for completion of North canal, Dry creek to Deer creek, with laterals.

**S. D., Elk Point**—Revetment work to cost \$18,000 ordered by government to be put in this spring.

#### BIDS WANTED.

**Iowa, Adel**—Bids received until 1:30 p. m., March 12, for construction district 12; check for 10 per cent; M. P. Finley, county auditor.

**Iowa, Algona**—Bids received until 10 a. m., March 4, for drainage ditch 91, Kossuth county; check for 10 per cent; E. E. Norton, county auditor.

**Iowa, Ottumwa**—Bids received until March 17, noon by water works board, for material, tools and labor for building coffer dams, and removal of old dams, foundation, excavation and erection of two concrete dams; Horace A. Brown, Water Works office, Ottumwa.

**Minn., Alexandria**—Bids received until 10 a. m., March 20, for cleaning and repairing county ditch 3, E. J. Brandt, auditor.

**Minn., Buffalo**—Bids received until 11 a. m., March 14, for ditch 19, Wright county, estimated cost main and two laterals, \$4,410; John A. Berg, county auditor.

**Minn., Crookston**—Bids received until 10 a. m., March 20, for digging and constructing county ditch 21, estimated cost \$14,175; leveling 3 1-3 miles, at \$250; plans with county auditor, H. J. Welte; check for 10 per cent.

**Minn., Fairmont**—Ditch lettings this month: March 20, 2 p. m., judicial ditch 33, petition calls for clay tile, haul about 5 miles; check for 10 per cent, 6 to 12-inch tile. March 20, 1 p. m., Judicial ditch 31, all tile work, one retaining wall, bids on clay tile only considered in city limits of fairmont; check for 10 per cent. Mar. 20, 1:30 p. m., judicial ditch 32, all tile, one retaining wall, petition calls for clay tile, haul about 6½ miles; check for 10 per cent; H. C. Nolte, auditor, Martin county.

**Iowa, Muscatine**—Supervisor Muscatine and Louisa counties will meet April 14, to receive bids on pumping plant in district 13, other bids rejected.

#### CONTRACTS AWARDED.

**Iowa, Jefferson**—Contract awarded to A. S. Tanner, Jefferson, for furnishing tile district 93; digging to Jens Launson, Scranton; also laying tile and refilling.

## WATER WORKS

*Notes Arranged Alphabetically by States.*

**Iowa, Nevada**—A new reservoir will be built in connection with the city water works.

**Minn., Arlington**—Bonds for \$14,000 will be sold for construction of water works; H. C. Heffert, village clerk.

**Minn., Arlington**—A vote will be taken March 10, on issuing bonds for water works; H. C. Meffert, clerk.

**Minn., Butterfield**—Bonds will be voted on at spring election for water works.

**Minn., Hibbing**—Earl D. Jackson, consulting engineer, St. Paul, has filed his report with council; he offers two projects for a permanent water supply, the first to build a pipe line from Sturgeon Lake, 18 miles distant, to Rock Crusher hill, where an emergency station and filtration plant and reservoir will be built and a pipe line to carry water to the village; cost \$950,000; second, to erect pump houses at Rock Bay and Burchart's lakes and a filtration plant and reservoir at Rock Crusher hill, and build pipe lines to connect with lakes and village; cost \$651,000; H. D. Haley, recorder.

**Minn., Hibbing**—Bids will soon be called for 10,000 feet of water pipe to be laid in Alice. H. D. Haley, recorder.

**Minn., New Ulm**—Plans are being made for erection of a reservoir near the pumping station of sufficient capacity to handle the water that is now being pumped into the three cisterns; cost \$3,000; write City engineer Minium.

**Minn., Osakis**—A vote will be taken March 10, on issuing works bonds for \$10,000; C. G. Milliard, city clerk.

**Minn., Vesta**—Bonds will be voted on at spring election for water works; W. J. Barber, clerk.

**Minn., Wabasha**—M. Tschirgi & Sons, Cedar Rapids, Iowa, were awarded contract for water works at \$29,800. Work to begin next month. Oscar Claussen Engineering Co., St. Paul, engineers.

**Mont., Great Falls**—Hiram Phillips, engineer, St. Louis,

has filed report on water system with council and recommends a plant to filter and purify the water from Missouri River at a cost of \$209,638. M. L. Morris, city engineer.

**Mont., Great Falls**—A vote will be taken at election April 6 on bonds for \$150,000 for construction of a filtration plant for city water system; W. H. Harrison, city clerk.

**Neb., Dakota City**—Election March 10, to vote bonds for \$10,000 for a water works system.

**Neb., Eagle**—Fairbanks Morse & Co., engineers, Omaha, have been engaged to survey pipe line and make estimate of cost of installing a water works system here.

**Neb., Exeter**—R. H. Kersey of South Bend has contract to dig a city well.

**Neb., Nelson**—Light and water bonds were voted.

**Neb., Niorbrara**—Geo. Vlasnik has contract to install water works system.

**Neb., Oconto**—The town is agitating the water works question.

**Neb., Seward**—C. A. Killian of Morse Bluffs has contract for city well.

**Neb., Superior**—Water works bonds for \$22,000 have been authorized by council.

**Neb., Winslow**—A vote will be taken at spring election for installing water works.

**N. D., Elgin**—The Elgin Improvement association are considering plans for an adequate water system.

**Sask., Estevan**—This city will issue bonds for \$37,200 for water works extensions.

**Wis., Ashland**—Ashland county court house building committee, Carl Rudquist, chairman, decided to erect a county water plant on Chequamegon square in connection with the building of court house to furnish water for same; a well will be sunk.

**Wis., Wittenberg**—Bonds for \$30,000 were voted for a water works system.

#### BIDS WANTED.

**Iowa, Audubon**—W. J. Laubender, clerk, will receive bids March 9, for building a 200,000-gallon concrete reservoir.

**Iowa, Ottumwa**—Bids received March 17, by board of water works trustees for furnishing all required material tools and labor for building coffer dams, removal of old dams, necessary foundation and erection of two concrete dams across the Des Moines river; Horace A. Brown.

**Neb., Omaha**—Bids received by board of directors of Metropolitan water district, 4 p. m., March 4, for construction and installation complete of cast iron water pipe as follows: Water main district 114, 1,020 feet of 6-inch pipe, class C; water main district 119, 450 feet 6-inch pipe, class B.; water main district 120, 320 feet 6-inch pipe, class B.; district 122, 493 feet 6-inch pipe, class B.; district 127, 150 feet 6-inch pipe, class B. Check for 5 per cent. R. B. Howell, secretary.

**Neb., University Place**—Bids received by Cecil Gates, city clerk, 7:30 March 14, for furnishing a deep well pump, double acting, 150 gallons per minute.

**S. D., Chamberlain**—Bids received by J. H. Bingham, city auditor, 1 p. m., March 9, for construction of a concrete sedimentation basin, 120x150, furnishing and installing a centrifugal pump having a discharge of 1,000 gallons per minute, 440 feet 6-inch cast iron pipe, 110 feet 4-inch pipe, 360 feet 8-inch pipe, 9 6-inch gate valves, 2 4-inch hydrants, 3,00 lbs. cast iron specials; check for 10 per cent.

**\*S. D., Huron**—Bids wanted till 2 p. m., March 26, by commissioners of Huron, for construction of filter; see official advertisement in the Improvement Bulletin, this week.

**Wis., Luck**—Bids received by Andrew Pederson, clerk, Mar. 16, for construction of a concrete foundation for the tower of the water works.

## SEWERS

*Notes Arranged Alphabetically by States.*

**B. C., Vancouver**—If arrangements can be made with the government at Victoria for a \$2,000,000 sewer bond issue the district sewerage and drainage board will make a start on the S. Vancouver branches of the system.

**Ida., Lewiston**—The council is considering a sewer for district No. 4; estimated to cost about \$30,000.

**Iowa, Burlington**—Hearing March 23 on a combination storm water and sanitary sewer to be known as the Prospect Hill sewer; Robt. Kroppach, city clerk.

**Iowa, Council Bluffs**—The following sums will be required to establishing sewer connection for the different schools of the city, 3d st., \$3,321; Harrison st., \$2,493; Av. E, \$3,600; 8th av., \$3,200; 8th st., \$3,133; Madison av., \$2,600; Av. B., \$3,400; 2d av., \$2,950; address city clerk.

**Iowa, Davenport**—Board of public works said to be preparing plans for about 7 miles of sanitary sewers; about \$10,000 will be spent for storm sewers.



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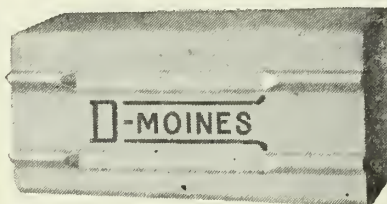
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**Iowa, Davenport**—Eight lateral sewers ordered and city engineer instructed to prepare plats for 12 other lateral sewers; bids soon to be ordered for lateral sewers in the Rockingham district; sanitary sewers soon to be constructed in sub-district No. 58, Main district No. 12; J. W. Crowley, commissioner of public works.

**Iowa, Denison**—Bids received by the city clerk, until March 20, for 3,500 lineal feet of 6 and 8-inch vitrified pipe sewer extension; H. B. Fischel, city engineer.

**Iowa, Denison**—Hearing will soon be held relative to sewers on certain streets; E. F. Tucker, city clerk, preliminary plans by Lytle Construction Co., Sioux City; cost \$8,000.

**Iowa, Sioux City**—Sanitary sewers have been ordered in Rose Hill boul., Lowell and Hyde Park additions; address city clerk.

**Iowa, Sioux City**—Bids to be asked for at once, it is announced, for a storm water sewer to drain the territory between 21st and 28th st.; also, for a storm water sewer for certain territory lying on Main st. and West 9th st.; also, for storm water sewer on Ross st.; address city clerk.

**Iowa, Spencer**—Hearing April 3, on a sewer in West 1st st., to be of 8-inch salt glazed vitrified sewer pipe, solidly cemented at the joints, and provided with the necessary "Y" connections, manholes and catch basins; Etta M. Smith, city clerk.

**Minn., Owatonna**—Bonds will be voted on in the sum of \$20,000, March 10, for a storm sewer on School st., etc.; C. J. Servatius, city clerk.

**Mont., Fort Benton**—Bonds have been voted in the sum of \$33,000 for sewer work; address city clerk.

**Mont., Valier**—A committee of which W. L. Bullock is chairman has been appointed to determine by personal solicitation if the people are in favor of a sewer system.

**Neb., Central City**—The council is considering a sewer system to drain more than 75 blocks of the city.

**Neb., Red Cloud**—It is probable that the sewer proposition will be voted on at the city election this spring; address city clerk.

**Neb., Stanton**—An election will be held April 7, for the purpose of voting \$7,000 in bonds for aid in a sewer system; W. T. McFarland, city clerk.

**Neb., Wausau**—A sewer system is contemplated here for the near future; Aug. Danielson, town clerk.

**Wis., Merrill**—The city council has voted bonds to build about 4,000 feet of 48-inch sewer; F. R. Matthews, city engineer, 814 1st st.

**Wis., Wittenberg**—A bond issue of \$30,000 has been authorized for the installation of a sewer disposal system and municipal water plant; address city clerk.

**Wyo., Cheyenne**—R. D. Goodrich, city engineer, has prepared plans for concealed sewers in lower Capitol av.; address city clerk.

#### BIDS WANTED.

**Kan., Dodge City**—Bids received by S. Gallagher, city clerk, until 7:30 p. m., March 11, for sewers in districts 3, 4, 5, 6 and 7, requiring approximately 14,600 lineal feet of 8-inch sewer, suitable for machine excavation, 6,830 feet of 8-inch sewer, hand excavation in alleys, and 350 lineal feet of 6-inch sewer, hand and machine excavation.

**Kan., Council Grove**—Bids received by M. W. Perry, city clerk, until 2 p. m., March 10, for approximately 23,800 feet of lateral sewers; check for \$800; Alva J. Smith, engineer, Emporia, Kan.; plans on receipt of \$5.

**Minn., St. Paul**—Bids received by Leonard C. Seamer, clerk of the board of public works, until 2 p. m., March 12, for a sewer in Alice st.; also, at the same time, for a sewer on the north side of University av., from Pascal av. to Hamline; also, at the same time, for a sewer on Armstrong av.; also, at same time, for a sewer on Blair st.; also, at same time, for a sewer on Fuller st.; bond with at least two sureties for 20 per cent, or certified check for 10 per cent.

**N. D., Grand Forks**—Bids will be re-advertised for April 6, on the lateral sewer in district No. 10, as there were no bidders at the date set for opening of bids.

#### CONTRACTS AWARDED.

**Iowa, Davenport**—Contract with John Bredow at about \$800, for sewers on High and Harrison sts.

**Minn., Kelliher**—Contract has been let to H. L. Bosworth, Ada, Minn., for a sewer and disposal plant at \$4,475; other bidders were T. W. Schrueth, Fargo, N. D., \$5,059; Aitkin & Bartlett, \$4,800; C. C. Butler, Virginia, Minn., \$4,715; A. B. Kobe, city recorder.

**Minn., Ortonville**—Contract with W. B. Bosworth, Ada, Minn., for the construction of a sewer system at \$11,350; other bidders were I. W. Schrush, Fargo, N. D., \$11,760; Wm. Hanforth, St. Paul, \$11,750; Aitkin Barseeth Co., Fargo, N. D., \$12,783; Ilstrup & Olsen, Minneapolis, \$17,950; Haggart Con-

struction Co., Fargo, N. D., \$18,085; J. A. Rowat, St. Paul, \$11,809.

**N. D., Grand Forks**—Contract to Robinson, Van Alstine, city, for lateral sewer No. 14, at \$4,476; there were 6 bidders.

## BRIDGES

#### Notes Arranged Alphabetically by States.

**Iowa, Alton**—Resolved to construct 13 reinforced concrete bridges; hearing March 12; Herman Tepaske, county auditor.

**Iowa, Nevada**—County board resolved to construct 23 bridges, hearing March 9; C. A. Batman, county auditor.

**Minn., Ada**—County board appointed S. J. Lee and Jacob Hadler to view site for a bridge in Green Meadow township; B. O. Lee, chairman.

**Minn., Blue Earth**—Ole Lindahl, chairman of the board of supervisors, secured \$500 county aid for putting in steel stringers and cement abutments at the Woodland bridge.

**Minn., Red Wing**—The Red Wing Manufacturers' association will raise \$10,000 for the organization of a railway bridge and terminal company to survey a line across the river and on to Eau Claire, Wis.

**Minn., Red Wing**—The Red Wing & Trenton Transit Co. will meet with city council to consider plans for improvements to the Wisconsin Channel bridge.

**Mont., Billings**—A petition for a bridge across the Yellowstone near Duck Creek.

**Neb., Columbus**—All bids for county bridges for 1914 were rejected.

**N. D., Nome**—County board granted petition of M. H. Wilberg and others, asking for a bridge between Thordenskjold and Raritan townships a half mile from here. A steel bridge 30 feet long and 20 wide, will be built.

**S. D., Mobridge**—Billings, Mont., has contributed \$1,000 towards building a bridge across the Missouri here; total cost of which is estimated at \$35,000. The bridge is a necessary link in the automobile road between St. Paul and Yellowstone Park.

#### BIDS WANTED.

**Iowa, Decorah**—Bids received by W. R. Shea, county auditor, 1:30 March 17, for six bridges, I-beam, concrete floors, concrete abutments and wings, according to plans by state highway commission; check for 5 per cent.

**Iowa, Vinton**—Bids received by A. Runyon, county auditor, 12m., March 4, for building 23 steel and concrete bridges and culverts.

**Minn., Foley**—Bids received by J. E. Kasner, county auditor, 10 a. m., March 12, for building state bridge 299, on county road in town of Minden over Elk River, 60-foot, 18-foot roadway, cement foundations; bids will be received for sub- and superstructure separate or combined; check for 5 per cent; plans by state highway commission.

**Minn., Ortonville**—Bids received by A. V. Randall, county auditor, 10 a. m., March 17, for all corrugated galvanized metal culverts to be used in 1914; each bid must be accompanied by a sample of the metal; check for \$150.

**Mont., Missoula**—Frank Nelson, chairman of the board of county commissioners will soon advertise for bids for a bridge across the Rattlesnake. Bids will be asked on two sets of plans, one for a steel structure and the other a concrete passageway.

**Wash., Malott**—Bids received by F. A. Grainger, county auditor, 10 a. m., March 19, for construction of bridge across the Okanogan river; check for 5 per cent; Bowerman & McCloy, consulting engineers, Seattle.

#### CONTRACTS AWARDED.

**Minn., Melrose**—Contract for bridge across Sauk River let to Hennepin Bridge Co. for \$5,200.

**Mont., Big Timber**—Contract for bridge over Bridger creek and two over Deer Creek awarded to Peder Hoem.

**N. D., Bowbells**—Fred Dilworth of this city was awarded contract to repair bridge across Des Lacs lake between Ward and Burke counties.

**S. D., Howard**—The Pioneer Bridge Co. was awarded contracts for building county bridges for 1914.

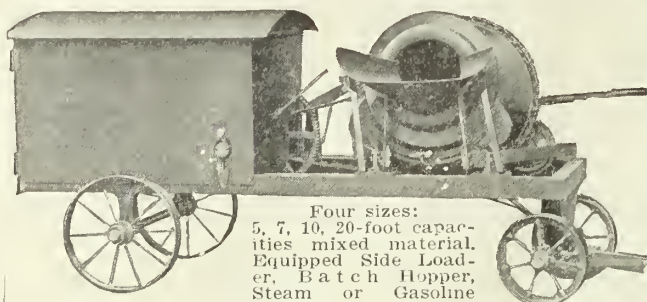
**S. D., Vermillion**—Contract let to Federal Bridge Co., Des Moines, Iowa, for construction of county bridges for the year.

**Wash., Tacoma**—Contract for bridge across South Prairie creek was awarded to G. A. Marsh for \$3,400.

**Wis., Appleton**—Contract awarded for re-inforced concrete bridge to Joe Verstgen and A. J. Mueller of Little Chute, Wis., at \$1,795; W. W. DeLong, engineer.



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## PUBLIC BUILDINGS

*Notes Arranged Alphabetically by States.*

**Alta., Claresholm**—The grandstand at the fair grounds completely wrecked by a hurricane and much damage to city buildings.

**B. C., Kamloops**—The Dominion government at Ottawa intends erecting a postoffice here to cost \$150,000.

**B. C., Kelowna**—A drill hall to cost \$70,000 will be erected here the coming season by the Dominion government at Ottawa.

**Ida., Nez Perce**—The board of county commissioners are considering a bond election Sept. 1, to vote bonds for the erection of a county court house.

**Ida., Riggins**—A town hall is to be erected here in the near future; construction work to begin at an early date.

**Iowa, Fort Dodge**—Options have been secured on a site for a proposed city hall, 9th st. and 1st av. S. The plans are for a city building which will care for the city offices, police and fire headquarters, city jail, etc. Address city clerk.

**Iowa, Glenwood**—Plans are under way by J. P. Guth, architect, Omaha, Neb., for the proposed armory; 64x140, 2-story and basement, brick and cement, \$15,000. R. E. Humphrey captain local company.

**Iowa, Muscatine**—E. G. Holbrook, architect, 51 Whittaker building, Davenport, Iowa, will prepare plans for the armory; 70x140, 3-story and basement; Dr. H. Lange, chairman of the building committee.

**Iowa, Pilot Mound**—A city hall is said to be an assured fact. The building will cost \$5,000, and to be 2-story and basement.

**Iowa, Sioux City**—Special election June 1, to decide whether the county shall build a \$500,000 court house.

**Minn., Brainerd**—The city hall bonds to the amount of \$50,000 have been sold; address city clerk.

**Minn., Grand Rapids**—The state board of control has informed the board of supervisors that the buildings at the county farm of Itasca county are inadequate to care for the inmates and advocating the building of new ones; M. A. Spang, county auditor.

**Minn., Little Falls**—Alden & Harris, St. Paul, have been selected in a competition for plans, as the architects of the county jail and sheriff's residence; fireproof, 18 cells, 2-story, brick and stone, heating, plumbing and wiring, cement and tile floors; cost \$40,000.

**Mont., Bozeman**—Plans for the grand stand at the new fair grounds have been prepared by Ole Bakke, architect; 48x200, seating capacity of 2,000.

**Mont., Great Falls**—Election April 6, to vote on bonds for a public market.

**Mont., Miles City**—G. C. Pruett, city engineer, has prepared plans for a city jail; election on issuing bonds April 6; J. E. Farum, city clerk.

**Neb., Broken Bow**—Plans for the proposed county jail have been accepted from John Latenser, Omaha; 46x46, 2-story, brick; modern equipment, toilet in each cell, shower bath in corridor; cost from \$8,000 to \$19,000; advertisements for bids for construction have been ordered; address county auditor.

**Neb., Lincoln**—Lancaster county's poor house destroyed by fire; total loss.

**Neb., Pender**—A new hall for the city and firemen is to be built; address city clerk.

**Neb., Hartington**—It is expected that a \$10,000 Carnegie library building will be built here the coming season. Address city clerk.

**Neb., Lincoln**—A mausoleum building of 650 crypts is to be built near Lincoln, Neb.; concrete construction; marble finish both exterior and interior; owners, Mausoleum Burial association; F. H. Perry, secretary, First National Bank building, Lincoln, Neb., J. R. Smith, architect, Lincoln, Neb.

**Neb., Red Cloud**—Bids for wood fixtures and furniture for new Webster county court house will be readvertised about May 1. W. F. Gernandt, architect, Omaha, Neb.

**Neb., Stanton**—An effort is being made to secure a Carnegie library. City council has instructed city attorney to draw an ordinance to make the necessary levy; address city clerk or Rev. Mr. Klopp.

**Neb., Steele City**—The citizens will vote on a proposition to build a town hall at the election in April. At recent meeting of the Commercial Club a report was made by Geo. Crane on plans and the probable cost; he favored a cement block building to cost about \$2,000, 30x80.

**N. D., Bismarck**—The military board of control has rejected all bids for the construction of two buildings on Rock Island military reservation, Devils Lake.

**N. D., Ellendale**—The court house here has been examined by Mr. Buechner of Buechner & Orth, architects, St. Paul, Minn., who declares there is no danger of a collapse of the structure; I-beams suggested would cost about \$800.

**N. D., Grand Forks**—The county commissioners are considering building a structure for the temporary accommodation of the county offices until settlement with the insurance companies for the court house recently burned.

**Ont., Fort Frances**—The armory and drill hall here will cost about \$50,000; 75x150, brick and stone; Col. D. C. McKenzie for information.

**Sask., Saskatoon**—Plans are being prepared for the Armory and work will begin in the spring.

**Wis., Ashland**—Plans prepared by Henry Wildhagen, city, for the new court house, have been accepted; Theo. R. Yankee, clerk of Ashland county.

### BIDS WANTED.

**Iowa, Clarinda**—Bids received for painting exterior of the United States postoffice here as follows: Loren Beery, Clarinda, Iowa, \$48; 60 days. Grant Owen, Clarinda, Iowa, \$64; 90 days. Grohne Contracting Co., Joliet, Ill., \$185; 15 days.

**Mo., St. Louis**—Bids received by Oscar Wenderoth, supervising architect, Washington, D. C., until 3 p. m., March 23, for the installation of air-washers and humidity-control apparatus in the new U. S. postoffice here.

**Neb., Columbus**—As soon as approved by the Carnegie foundation bids will be advertised for on the proposed library, costing \$13,000; 34x60, mat-faced brick and Bedford stone, interior oak finish; plans prepared by Architect Wurdemann; address secretary of the library board.

**N. D., Ellendale**—Bids received by John King, city auditor, until 1 p. m., March 17, for a 2-story municipal building of brick, concrete and steel. J. W. Henry, architect, Aberdeen, S. D. Check for \$500. Separate bid for heating and plumbing.

**Sask., Moose Jaw**—Bids will soon be called for on the new North Hill fire hall; to cost \$22,000.

**Wis., Chippewa Falls**—Bids received by J. T. Tuohy, chairman of the board of public works, until 3 p. m., March 16, for one abutment wall on the easterly side of Duncan creek on River st.; check for 5 per cent.

**Wis., Elkhorn**—Plans for the proposed jail and sheriff's residence have recently been inspected in Milwaukee by a committee from this place; it is expected that bids will be asked for early in March; Grant D. Harrington, county clerk.

### CONTRACTS AWARDED.

**Iowa, Atlantic**—Contract with C. F. Martin, city, for the dwelling at the county farm, at \$1,377. Other bidders were W. W. Bowes, \$1,580; Geo. S. Kirk, \$1,645; Christ, Dilger & Schalow, \$1,523; J. W. Laurenson, \$1,697 and J. W. Pederman, \$1,425. The contract calls for a 2-story, 6-room building, 28 x38, providing for four rooms on the ground floor and two upstairs, and a cement foundation.

**Iowa, Eagle Grove**—Contract for the general construction of the city hall and fire station has been let to T. J. Waddell at \$15,000; heating and plumbing to Odgers & Shirir, at \$2,750.

**Iowa, Fort Dodge**—Bids were received for interior painting at the United States postoffice here as follows: I. J. Collins, Fort Dodge, Iowa, \$1,931.20; 65 days. A. Bindsell, Fort Dodge, Iowa, \$1,304.84; 60 days. Willis T. Fairfax, Superior, Wis., \$1,310; 60 days. Grohne Contracting Co., Joliet, Ill., \$1,334; 60 days. Henry Lehmann & Sons, Omaha, Neb., \$1,495; 60 days.

**Iowa, Fort Dodge**—Contract for painting interior of postoffice given to A. Bindsell.

**Iowa, Mason City**—Contract with S. R. Bowen for the new armory building.

**Mont., Livingston**—Contract with the Art Metal Construction Co. of Jamestown, N. Y., for metal vault shelving in the U. S. postoffice here.

**Neb., Omaha**—Contract with John Laf, city, for construction of glass partitions in the federal building.

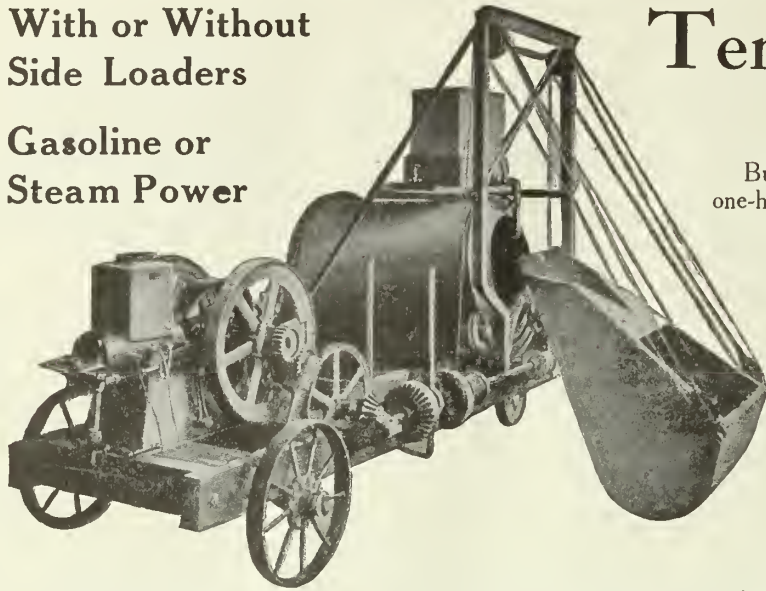
**Neb., Plainview**—Contract has been made with R. W. McHale for the tile, brick work, concrete and excavation of the court house.

**Neb., Red Cloud**—Contracts awarded as result of bids for erection of Webster county court house building, Red Cloud, Neb., opened Feb. 24, 1914; W. F. Gernandt, architect, Omaha, Neb. General contract: C. E. Goodhand, Ord, Neb., \$52,250; C. D. Richey, Hastings, Neb., \$51,974; John Hemple, Hastings, Neb., \$51,500; H. Eilenberger & Co., Chicago, \$49,850; Falls City Construction Co., Louisville, Ky., \$49,433; W. J. Scrivner, Red Cloud, Neb., \$47,023; The Rowles Co., Onawa, Iowa, \$45,806; Henry Ohlsen & Son, Loup City, Neb., \$45,450; contract awarded to the Rowles Co., Onawa, Iowa. Heating and plumbing: P. N. Kjar, Holdrege, Neb., \$5,862; Frank Peterson, Red Cloud, Neb., \$4,912; B. Grunwald Co., Omaha, Neb., \$4,750; H. S. Lambert, Jr., Kearney, Neb., \$4,649; City Plumbing & Heating Co., Boulder, Colo., (awarded), \$4,100. Steel fixtures and furniture: Van Dorn Iron Works Co., Cleveland, Ohio, \$2,900; Steel Fixture & Manufacturing Co., Topeka, Kans., \$2,898. Wood fixture and furniture: Newton & Hoyt, Chi-



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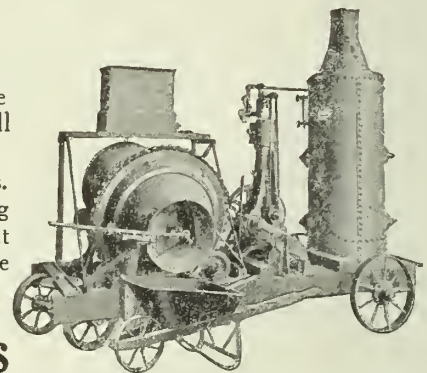
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cago, Ill., \$5,500; American Fixture Co., Kansas City, Mo., \$5,130. Both bids rejected.

**Wash., Spokane**—Contract with the Des Moines Clay Co., owners of the Acme Roofing Tile plant, for the roofing tile for seven institute buildings for the feeble-minded being erected by the state of Washington, one of the largest orders of its kind recently.

**Wis., Green Bay**—The Hartmann-Greiling Machine Co. has been given two contracts by the government, one for doing the iron work on several scows and the other for rebuilding a boiler of a tug.

## HOTELS AND HOSPITALS

*Notes Arranged Alphabetically by States.*

**Minn., Pine River**—The Pine hotel was burned Feb. 28.

**Iowa, Cedar Falls**—The committee appointed by President Hearst of the Commercial club on the new hotel proposition reports progress and it is believed the hotel is assured.

**Iowa, Des Moines**—H. F. Liebbe, state architect, has plans for two new buildings to be erected this year at the state tuberculosis hospital at Oakdale; one will cost \$50,000 and the other \$65,000. The same architect is also rushing plans for a \$25,000 custodial building to be erected at the inebriate asylum at Knoxville. Plans for these structures will be completed so that work may be begun early in the summer.

**Iowa, Grinnell**—An addition to the hotel owned by Mr. Gifford is to be built at once; it will contain 40 modern rooms with baths, 2-story.

**Iowa, Mason City**—Bonds are being subscribed for the erection of a modern \$50,000 hospital building for the Sisters of Mercy; site not yet selected.

**Iowa, Muscatine**—The Muscatine Hotel Co. has been organized with a capital of \$250,000 and has filed its articles of incorporation with the county recorder; a new hotel will be built on the site of the old Commercial house; the incorporators named are N. Barry, C. R. Musser, E. L. McCollm, S. G. Stein, G. M. Titus and W. R. Jaync.

**Mich., Manistique**—The St. James hotel burned; loss \$15,000.

**Minn., Cannon Falls**—The Goodhue county sanitarium commission has selected a site at Cannon Falls as the proper loca-

tion for the proposed tubercular hospital and this decision has been approved by Dr. Robinson Bosworth, secretary of the state advisory commission in charge of tubercular sanitariums; Rice county may join in the ownership, in which event a building will be put up costing in excess of \$50,000.

**Minn., Deerwood**—A \$75,000 hotel is under contemplation for this place; address the mayor for information.

**Minn., Fergus Falls**—Plans for the annex to his hotel are expected at once by C. W. Kaddatz; contract for the work has been let to John Lauritzen.

**Minn., Glencoe**—The Glencoe House has been purchased by Ed. Milbrand, who will remodel it and install steam heat.

**Minn., Kelliher**—Geo. Gunderson will begin work as soon as the weather will permit on a 2-story frame hotel to contain 40 rooms to take the place of the building recently burned.

**Minn., Nett Lake**—A hospital is being proposed for this place, as well as various other improvements, a sewer, etc.; address city clerk.

**Minn., Woodstock**—The hotel here burned Feb. 25 and was a total loss, estimated at \$3,500, with insurance of \$1,000; Carl Lee, owner.

**Mont., Cascade**—Frank Ball will erect a hotel east of the Home Lumber Co.'s building in the near future.

**Mont., Great Falls**—Lillian Hunter will build a 2-story brick lodging house at 111 10th alley S., to cost \$11,200.

**Mont., Kalispell**—The Great Northern is to have still another hotel in the Glacier National Park, the latest being on the shores of Lake McDermott, at the foot of Grinnell glacier; it will contain 264 rooms.

**Mont., Scobey**—Business men are back of a movement for a hospital to cost \$5,000; address city clerk.

**Neb., Lincoln**—Burd & Miller, Omaha, Neb., are the architects for the hospital for deformed children to be built here by the state; cost about \$40,000; brick, stone and cement construction; tile or asbestos roof; cord, tile and asbestos and wood flooring, steam heat, electric fixtures, steel columns, marble, metal laths, plumbing, skylights, terra cotta, vaults, vacuum cleaner, ventilators, boilers, cementing, blackboards, hollow tile, etc.; address architect.

**N. D., Bremen**—Mr. Gloppen, Leeds, N. D., may build a large hotel here.

**Wis., Marshfield**—C. E. Blodgett has plans for extensive alterations in his hotel; work to be begun soon.

**Wis., Oshkosh**—The site known as the Winchester hill has been virtually decided upon for the proposed tuberculosis



sanitarium; C. M. Perry, one of the county supervisors, has the matter in charge; address him at Oshkosh, care of John J. Fish.

**Wis., Sheboygan**—Preliminary plans are in progress by the Foeste Hotel Co., Otto Foeste in charge, for a remodeling of hotel and an addition of 28 rooms, each with private bath; 39x70, 4-story and basement; Wm. C. Weeks, architect, 720 Ontario st., city.

#### BIDS WANTED.

**Iowa, Decorah**—Bids received until March 25, by H. C. Hjerleid, of Decorah, for erecting the Aase Hanger old people's home, to be brick and tile, not fireproof, and to cost, including equipment, \$40,000; two smokeless boilers, electric light plant, vacuum heating plant, elevator and pump will be installed, all to be awarded March 25; J. G. Ralston, architect, Waterloo.

**Neb., Norfolk**—Plans for the \$55,000 addition to one of the state hospital buildings are being pushed rapidly by J. C. Stitt, architect, and it is hoped to let the contracts in time for early spring work.

#### CONTRACTS AWARDED.

**Iowa, Atlantic**—Contract to C. E. Martin, city, for a 2-story frame building at the county home, at \$1,377.

**Iowa, Dubuque**—Contract for all painting, paper hanging and varnishing for the new Julian hotel has been awarded to the Jessen Decorating Co., Davenport, in competition with bidders from Chicago, St. Louis, Kansas City and St. Paul.

**Iowa, Dubuque**—Contract has been made with the Standard Lumber Yards Co. for 11,000 barrels of cement and about 25 carloads of lumber for the new Julien hotel, actual work on which has been begun; the general contract is held by the Central Engineering Co., Davenport.

**Neb., Lincoln**—Contract has been made with L. C. Basford to paint the state insane hospital at \$2,100.

**Okla., Fort Sill**—Contract for the brick hospital at Fort Sill, Okla., has been awarded to W. D. Lovel, Minneapolis, Minn., for \$37,280. The following additional bids were received: The Potters Lumber Co., East Liverpool, O., \$48,965; Tochtermann & Richards, Lawton, Okla., \$40,475; Reinhardt & Donovan, Oklahoma City, Okla., \$48,652; Shulind & Co., Alexandria, Minn., \$41,938; Fred B. Hannan, Lawton, Okla., \$37,485.

## THEATRES AND HALLS

#### Notes Arranged Alphabetically by States.

**Iowa, Atlantic**—Preliminary plans are under way for a lodge building for the local lodge of Danish Brotherhood; modern, brick and stone building.

**Ida., Cottonwood**—The Knights of Columbus are planning to build a lodge home; have incorporated; address John Hoene for particulars.

**Iowa, Columbus Junction**—J. A. Knight will build a 1-story addition to the Majestic theater, giving it a seating capacity of 350 persons.

**Iowa, Davenport**—Plans are in preparation for a hippodrome building to be owned by Henry Jaeger; 120x150, probably fireproof, work to start in the spring.

**Iowa, Jewell**—The Odd Fellows will build an opera house and lodge hall; cost \$15,000; theater on first floor, lodge room on second; brick, stone and cement, modern.

**Iowa, Washington**—The Odd Fellows will improve and remodel their hall this spring at a cost of about \$5,000; new floor, steel ceiling, partitions changed, rooms decorated; John Williams, chairman of committee having charge of the improvements.

**Minn., Albert Lea**—The Elks have purchased a site on Broadway and will at once plan to erect a store and office building; building to be 3 or 4-story, 44x122, stores on the 1st floor, the other floors to be used for lodge rooms and offices; E. A. Clausen for information.

**Minn., Biwabik**—Farmers to the south of this place will build a hall for public meetings on section 15, town of Colvin; 25x35, to be built at once; particulars from the mayor of Biwabik.

**Minn., Red Wing**—Articles of incorporation have been filed for a hall for the Modern Woodmen of America, to cost \$10,000.

**Minn., Sauk Center**—James A. Caughren is going over the plans for the \$30,000 opera house which he will probably build; A. E. Dubeau, Minneapolis, may go in with Mr. Caughren instead of building a theater of his own.

**Minn., St. James**—The Thornton building will be remodeled into a moving picture theater, to be called the "Star."

**Mont., Billings**—The Salvation Army has about decided on a site for the proposed \$14,000 workingman's home; address Adjutant Sainsbury for particulars.

**Mont., Helena**—Richard Lockey will donate a site for the

proposed \$250,000 Masonic Temple, the conditions being that the cost shall be equal to the amount mentioned and that his offer be accepted within 90 days.

**Mont., Red Lodge**—The building committee of the Elks' lodge has secured lots for a site for the proposed lodge home on Broadway; plans have been drawn and accepted, and bids will soon be asked for, the building to cost \$10,000.

**Mont., Spring Creek**—Farmers of this section expect to build a community hall; address the mayor.

**Mont., Twin Bridges**—A town hall or opera house is being considered to cost about \$8,000; address the mayor for information.

**N. D., Devils Lake**—S. L. Wineman announces that as soon as the weather will permit work will be started on an exclusive theater building; 40x140, suspended canopy over the walk, seat 800 people.

**N. D., Verona**—There is talk of building a Masonic hall here.

**Ore., Portland**—Aaron H. Gould, architect, Henry building, will prepare plans for a 4-story reinforced concrete theater and office building, estimated to cost \$100,000; names withheld.

**S. D., Hartford**—Fred Voelsch will build an opera house on the lots north of the Gage hotel; 60x80, fully modern.

**S. D., Mitchell**—A new and permanent corn palace is to be built here, part of the funds being on hand; address the mayor.

**Wis., Appleton**—The Masons have instructed an architect to prepare plans for a temple to cost \$100,000.

**Wis., Milton Junction**—Plans are being considered for the erection of a library building; address secretary of the Fort-nightly club.

**Wis., New London**—A local architect is preparing plans for a new hall and club room for the Masons.

**Wis., River Falls**—A first class theater building is being considered; address P. W. Ramer.

#### BIDS WANTED.

**Iowa, Cresco**—Bids wanted by the Monarch Theater Construction & Supply Co., 230 Shubert building, St. Paul, Minn., for bids on all sub-contracts.

**Iowa, Sioux City**—Bids received by John Biegger, care Colonial theater, until 4 p. m., March 17, for the new Empress theater and office building; Joseph Schwarz, architect, Sioux Falls, S. D.

**Minn., Adams**—Bids will be taken by John Kresbach, owner, until March 15, for a motion picture theater and store to cost \$20,000; W. F. Keefe, architect, 68 Union block, St. Paul.

**Mont., Helena**—The directors of the state fair will build bleachers on the fair grounds to seat 2,000 people; S. J. Coffee, Missoula, president of the board of directors.

**N. D., Ellendale**—Bids will be taken some time in the spring for a moving picture theater to be owned by Durand & Booth; 25x70, cement and brick.

#### CONTRACTS AWARDED.

**Iowa, Iowa City**—Contract has been let to W. A. Warren, West Liberty, Iowa, to build a home for the engineering society, Theta Xi, at a cost of \$15,000; to contain 25 rooms, including a large dancing hall; electrical work will be planned by W. E. Schwob of Wapello.

**Neb., Fullerton**—Contract to Geo. Stanley, city, for the Odd Fellows' building; work to begin at once.

## MILLS AND FACTORIES

#### Notes Arranged Alphabetically by States.

**Alta., Castle**—The sawmill here owned by W. H. Lease burned, may be rebuilt.

**Alta., Medicine Hat**—Construction work will begin on erection of Medicine Hat Radiator Co.'s plant.

**Iowa, Council Bluffs**—Work is nearing completion on the plant of new Distilled Water Ice Co., to be completed April 1; Droge Bros., general contractors, Wickham Bros., brick contractor; C. M. Pennell, lumber contractor.

**Iowa, Davenport**—A large cigar factory will be erected here by P. N. Jacobson, cigar manufacturer; 2-story, brick.

**Iowa, Marshalltown**—A 1 and 2-story factory and office building will be erected by the Lennox Furnace Co., E. P. Miller, general manager, Marshalltown; 110x650, W. S. Ferguson & Co., engineers, 615-19 Euclid building, Cleveland, O.

**Minn., Crookston**—The Crookston Sash & Door Co. will erect an addition to their factory, Larson & Larson, owners.

**Minn., Harmony**—Nelson & Hines, proprietors of the Kendallville Creamery have purchased site and plan erection of a creamery here.

**Minn., Mantorville**—The Wasioja Cheese & Butter association organized and will erect a factory at Wasioja (not a postoffice); I. M. Rose, M. E. Williams, L. S. Stevenson and others, directors.



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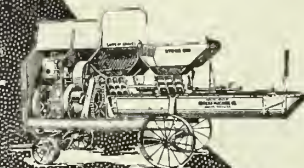
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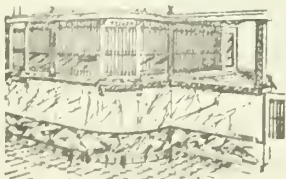
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**Minn., Moorhead**—The Moorhead mills burned; owned by Dwight M. Baldwin, Jr., of Minneapolis; loss total, valued at \$40,000.

**Minn., Richville**—Albert Vogelpole will erect a saw and planing mill soon. he will also add a feed mill.

**Mont., Butte**—A mill and concentrating plant is being erected by the Timber Butte Mining Co. to be finished by May 1.

**Mont., Libby**—It is understood that the Tri-State Cedar Co. contemplates erection of a cedar post mill in the spring.

**Minn., Thief River Falls**—Fire destroyed the H. B. Hanson cigar factory.

**Mont., Whitcomb**—Excavation for the new mill is about completed.

**Mont., Woodside**—A farmers co-operative creamery will be erected here.

**Mont., Worland**—The Emmer Products Co., recently organized, will erect plant, to manufacture breakfast foods, estimated cost \$15,000; A. G. Rupp, manager.

**Neb., Auburn**—The Auburn Commercial club have closed contract with John Hanlon, for erection of an ice and cold storage house; cost \$18,000; to be ready by April 1.

**Neb., Neligh**—S. F. Gilman contemplates erection of an alfalfa mill.

**Wis., Beloit**—Fire damaged the linen mills about \$4,000; insured.

**Wis., Ellsworth**—Frank H. Johnson will begin building his cement block factory next month; 30x60, concrete.

**Wis., Fall River**—The flouring mill, this city, burned; loss about \$3,000; insured; George Rasher, owner.

**Wis., Knowlton**—The Vetter Manufacturing Co., of Stevens Point, have purchased a site and will erect a saw mill in Marathon county, B. F. Martin, B. L. Vaughn, of Stevens Point interested.

**Wis., La Crosse**—Fire destroyed the Northside Yarn Mills; loss about \$20,000; fully insured.

**Wis., Neenah**—Fire destroyed the Palace laundry here and the Neenah Boat Works.

**Wis., Racine**—Charles Epstein is erecting a 2-story building for an ice cream factory.

**Wis., Shawano**—L. A. De Guere is preparing plans for a new sulphite mill to be erected for the Wolf River Paper & Fiber Co. in this city; work to begin at once.

**Wis., Stanley**—Stanley Shoe Manufacturing Co., building burned, insured, \$4,000; company will erect a new brick factory building.

**Minn., Minneota**—Plans for a 1-room frame school building for district No. 77, Lyon county, submitted by L. S. Teigland, Minneota, Minn., have been approved by S. A. Challman, state commissioner of school buildings.

**Minn., Norcross**—Plans for heating and ventilating a 4-room school building in district No. 31, Grant county, have been approved by S. A. Challman, state commissioner of school buildings. B. Torgersund, clerk, Norcross, Minn.

**Minn., Okabena**—Old German Lutheran church will be used for school as soon as new church is built.

**Minn., Pierz**—Plans for new parochial school have been shown by Father Spiegler, St. Joseph's church; brick, 2-story, 76x80, full basement, 8-rooms, work to begin as soon as frost is out of the ground.

**Minn., Round Lake**—Plans are under way for a new school house, Sioux Valley, after fire; loss of \$2,000; partly covered by insurance.

**Minn., Taopi**—Plans and specifications for a 1-room frame school building with basement, for district No. 74, Mower county, submitted by Aurlie Brothers, Spring Valley, Minn., have been approved by S. A. Challman, state commissioner of school buildings.

**Minn., Ulen**—Kirby T. Snyder, architect, Minneapolis, is preparing plans for an 8-room, modern school; 60x80, 2-story, steam heat, frame or tile, stucco, ready for bid April 1; A. E. Western, clerk of board.

**Minn., Virginia**—The commission for plans for the south-side high school was given to Bray & Nystrom, architects, Duluth, Minn.

**Minn., Wabasha**—The Dumfries district has voted to erect a new school building, 2-rooms, tile and stucco finish, modern.

**Mont., Butte**—Preparations being made for funds to build Washington school, bond issue will not be needed, school treasury will have about \$140,000 this year.

**Mont., Corvallis**—Consolidation of Woodside Mountain View and Willow Creek, with Corvallis school is contemplated, necessitating large new building.

**Mont., Livingston**—Plans for a 1-room school house in the Minar Basin district, have been approved by board of health; district is contemplating erection of a building at once.

**Mont., Livingston**—A school will be built at once for the Hub, Shields River valley; \$3,800, loan secured by Fred Njelde, county treasurer.

**Neb., Fremont**—School district of Nickerson, Neb., has started funds towards the construction of a modern school building.

**Neb., Hartington**—Work on new school building is nearing completion.

**Neb., Sargent**—The people of Sargent are agitating the building of a new school house.

**N. D., Bladon**—A consolidated school building will be erected here; cost \$12,000.

**Wis., Marshfield**—Work on \$12,000 addition to McKinley high school will start in June; 30x30; class rooms, laboratories, addition to gymnasium, addition to assembly room.

**Wis., Sheboygan**—Contractor C. B. Schultz, has completed plans for new school building at town line, by joint district No. 20, Sheboygan Falls and Plymouth; full basement of concrete and brick; upper story of wood.

## BIDS WANTED.

**Iowa, Bridgewater**—Bids received until March 19, 12 m., for erection of a school house in sub-district No. 6, Washington township, Adair county, Iowa; R. J. Wyllie, secretary, Bridgewater, Iowa; Herman Hineck, president.

**Iowa, Greenfield**—Bids received until noon March 19, for erection of school house in subdistrict No. 6, of Washington township, Adair county; plans at Union Bank, Bridgewater, Iowa; bids may be left with Union Bank or sent to R. J. Willie, secretary school board.

**Iowa, Hampton**—Bids received until 1:30 p. m., March 19, for erection of a high school building, C. Howard Parsons, architect, 601 Phoenix building, Minneapolis, Minn.; bids taken by F. H. Ridgway, secretary, board of education.

**Iowa, Tracy**—Bids received until 1 p. m., March 16, by school directors, independent district of Tracy, for construction of school in Tracy. Check for \$500. Plans may be had from F. Hartshorn, secretary, Tracy, on deposit of certified check for \$25.

**Mont., Forsythe**—Bids received until noon, March 7, for erection of a school house in district 35, Rosebud county; bids for material and construction work received separately, Mrs. Gertrude Caldwell, Forsythe, clerk school district No. 35.

**\*N. D. Cooperstown**—Bids received till 1:30 p. m., April 3 by clerk of school board, Oscar D. Purinton, for erecting school; see official advertisement in the Improvement Bulletin this week.

**Mont., Hilger**—Bids received until 2 p. m., March 14, for furnishing lumber and material for erection of a school building at Christiana, (not a postoffice); also at same day and

## SCHOOLS

*Notes Arranged Alphabetically by States.*

**Iowa, Burlington**—Two new school houses are to be erected.

**Iowa, Coon Rapids**—John C. Woodward of Council Bluffs was in city in regard to plans for school building.

**Iowa, Council Bluffs**—Election March 9, on question of \$50,000 taxes for school improvements, including \$25,000, for 4-room addition to Madison school.

**Iowa, Ellsworth**—\$20,000 school bonds were voted.

**Iowa, Hampton**—Plans completed for erection of a gymnasium, kitchen, manual training and domestic science departments, etc., school, 3-story, 129x88; cost \$20,000; C. Howard Parsons, architect, 601 Phoenix building, Minneapolis, Minn.; bids taken by board of education.

**Iowa, Postville**—Election on \$40,000 bonds for new school carried.

**Iowa, Sioux City**—Two Woodbury county school districts, Salix and Sergeant Bluffs are completing plans to build consolidated school houses this year.

**Iowa, Waterloo**—Plans for ward school building, cost \$35,000 approved by east side board of education; work will commence early in summer.

**Minn., Barnesville**—Plans for proposed school were discussed by school board and Mr. Haxby of Haxby & Gillespie, architects, Fargo; brick building on unit plan favored.

**Minn., Carver**—Chas. S. Sedgwick, architect, Lumber Exchange building, Minneapolis, is preparing plans for a school building, 30x50; cost \$4,000; bids received in care of board of education.

**Minn., Faribault**—A \$150,000 high school building will be erected here this spring; also additional buildings for the Minnesota school for the blind and feeble-minded.

**Minn., Fergus Falls**—Plans and specifications for an addition to the high school at Fergus Falls, submitted by C. Howard Parsons of Minneapolis, have been approved by S. A. Challman, state commissioner of school buildings.

**Minn., Hinckley**—A petition is being circulated for a new Mission Creek school, vote to be taken.

**Minn., Hubert**—Plans for a 1-room frame school building with basement for district No. 107, Crow Wing county, of which Mrs. Sarah Heold is clerk, have been approved by S. A. Challman, state commissioner of school buildings.



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hour and place, contract will be awarded for carpenter work; plans on file at residence of clerk; Laura Anderson, Hilger, district No. 103, Fergus county, Mont.

**N. D., Fargo**—Site has been purchased for a school but no further action taken by the board, E. G. Anthrie, secretary.

**N. D., Osnabrook**—Bids received by Joseph McGauvran, president of school board, of Hay district, until 4 p. m., March 18, for erection of four school buildings.

**Wis., Mackville**—Plans prepared by architects, W. W. DeLong, 722 College av., Appleton, Wis., for a 3-story school and sisters' home for Catholic church, Rev. R. H. E. Zurbach, pastor, will take bids early in the spring; 43x65.4.

**Wis., Saxon**—Bids received until March 1 for erection of a 2-story school building; 72x110, cost \$40,000; Anderson & Williams, architects, Wilner building, Green Bay, Wis., bids taken by J. J. Sullivan, members of board of education.

#### CONTRACTS AWARDED.

**Iowa, Aurora**—Contract awarded to T. J. Eyer of Biwabie for decorating of new grade school building, at \$1,000.

**Iowa, Waterloo**—Contract awarded for school in Greenwood district No. 2, Waterloo township, which will be built at Cedar Heights, to A. E. Smith.

**Iowa, Laurens**—Contract for a new school building here has been let to the Marten Construction Co. of Sioux City, Iowa, work will begin about March 15.

**Neb., Wayne**—Contract awarded to Brueggeman Bros., of Norfolk, Neb., for electric wiring of the new normal school building.

**N. D., Calvin**—Contract awarded to Fred Lindsay, Rock Lake, N. D., for erection of the school building, Mt. Pleasant district, at \$3,645; Iver Kasho, Devils Lake, at \$4,020; Fjelseth & Johnson, Devils Lake, \$4,372; L. C. Mart, Devils Lake, \$4,622; T. C. Lindsay, Rock Lake, N. D., \$3,849; J. A. Shannon, architect, Devils Lake, N. D.

**N. D., Devils Lake**—Contract awarded for school building near Calvin, N. D., to Fred Lindsay, at \$3,645; T. C. Brindle, \$3,849; L. C. Mart, \$4,622; F. Jeiseth and Johnson, \$4,372; Iver Kasho, \$4,020; J. A. Shannon, architect, Devils Lake.

**N. D., Rocklake**—Contract awarded to Fred Lindsey, Rocklake, N. D., for frame school building, 5-room, at Mt. Pleasant; cost \$3,645; stone foundation, rubble stone, shingle roof, wood cornice, common glass, patent plaster, furnace heat, maple floors, birch or yellow pine finish; blackboards, storm sash, ventilators, cement work; J. A. Shannon, architect, Devils Lake, N. D.

**N. D., Sykeston**—Contract awarded to W. H. Carson, New Rockford for Catholic school, percentage basis; work will begin early in spring.

**Ont., Ft. Francis**—G. A. Shannon has contract for new public school building, and is making cement bricks for filler in walls.

## CHURCHES

Notes Arranged Alphabetically by States.

**Iowa, Boone**—Swedish Mission congregation started brick veneer church; address pastor.

**Iowa, Davenport**—Swedish Lutheran church will be remodeled after fire; N. W. Nelson, E. 6th st., finance committee.

**Iowa, Des Moines**—St. John's Lutheran church was damaged about \$20,000, by boiler explosion.

**Iowa, Des Moines**—Official board of Central church of Christ approved plans for addition to church.

**Iowa, Wall Lake**—German Lutheran congregation decided on new church; pressed brick and hollow tile, plans furnished by Contractor Schlachter of Rockwell City, Iowa.

**Iowa, Welmann**—M. E. church will be remodeled, basement finished, with kitchen, S. S. rooms, modern.

**Minn., Dawson**—Plans for the Hauge church have been accepted to be built next summer; cost \$15,000; pressed brick; C. O. Hill, T. O. Bergland, J. K. Ellefson, committee on building.

**Minn., Marshall**—Work will start soon on the \$60,000 Catholic church.

**Minn., Motley**—Members of Gilligan church will erect new edifice; modern, bungalow style, kitchen, dining room, hardwood floors, blackboards.

**Minn., Okabena**—German Lutherans will build church, 38x60, to cost \$6,000.

**Minn., Plato**—Evangelical Lutheran church decided to erect church in the spring; modern; address pastor.

**Minn., Rochester**—F. H. Ellerbee has contract for plans and specifications for new M. E. church, this city, estimated cost \$40,000.

**Mont., Poplar**—Episcopal congregation will build church, Rev. L. J. Christler, rector.

**Neb., Doniphan**—Methodists have plans underway for church; address pastor.

**Neb., Wolbach**—Plans in preparation for a \$15,000 Catholic church.

**N. D., Carrington**—Fire destroyed M. E. church here; valued at \$7,000; insured \$3,000; Rev. F. H. Farrand, pastor.

**Sask., Yorkton**—The Swedish Lutheran Evangelists have decided to erect a church here; Rev. L. P. Bergstrom, Winnipeg, president; Rev. Olaf Lingreen, Czar, Sask., vice president.

**S. D., Berard**—Methodist church to cost \$12,000; instead of \$11,000, as planned, one being raised; plans adopted; write pastor.

**S. D., Clear Lake**—The church lost \$7,000. The society burned; raising funds for Lutheran church has been started.

**S. D., Green Bay**—Christ Episcopal church damaged by fire, \$1,000; insured.

**Wis., Lake Nebagamon**—The Presbyterian church will be remodeled and made modern throughout.

**Wis., Luxemburg**—Wm. E. Reynolds, architect, 109 11th st., Green Bay, prepared plans for a church for the Catholic congregation, Rev. Wm. Melcher, pastor, R. F. D., Luxemburg, Wis., is ready for figures; 37x100; cost \$7,000.

**Wis., Madison**—Lutheran students of the university launched a campaign to secure \$10,000 for chapel; Thorwald Beck, chairman of committee.

**Wis., Madison**—Students of the university have started a campaign for \$10,000 fund toward erection of a \$50,000 English Lutheran church; Rev. Howard R. Gold, pastor.

**Wis., Winneconne**—John Patterson and Herman Kroll are figuring or \$11,000 church to be erected here.

#### BIDS WANTED.

**Iowa, Fort Dodge**—Bids received by E. I. Leighton, chairman of the building committee, until about March 23, for a Methodist church to cost approximately \$80,000; plans ready, which can be had on \$5 deposit. Officially advertised in this issue of the Improvement Bulletin.

**Iowa, Terrill**—Bids received for brick veneer church by board of trustees, M. E. church of Terrill, until March 20; plans may be had on deposit of \$10; officially advertised in Improvement Bulletin. T. K. Griffith, secretary.

**Minn., Chisago**—Bids received until March 20, 2 p. m., for erection of a church for the Swedish Lutheran church, this city; plans on file with Jno. Alfred Peterson, Chisago City, secretary of building committee.

**Minn., Thief River Falls**—Contract awarded to Ed. Trone, contractor for erection of the Bethanian United Lutheran church building, at \$3,065; 30x40, to be completed by Sept. 1.

**S. D., DeSmet**—Bids will be received on or before March 14, at 12 m., for the construction of a new St. Mathews Evangelical Lutheran church, 7½ miles from DeSmet; plans and specifications by applying to August Gehm, corresponding secretary, DeSmet. The contractor is to furnish all materials and perform all labor from the foundation walls up, and is to furnish a certified check with his bid to the amount of \$50.

**S. D., Hillside**—Lutheran congregation will erect church, 29x60, frame; address pastor.

**Wis., Amherst**—Bids received until 1 p. m., March 14, for construction of brick church for German Lutheran congregation; plans at International Bank; Ernest Borchert, secretary.

#### CONTRACTS AWARDED.

**Minn., Aitkin**—Contract awarded for M. E. church at Aitkin, Minn., to N. J. Holden, Aitkin, Minn., at \$9,983; work to start April 1; plumbing, heating, wiring, art glass, furniture; to be let by owner; Kirby T. Snyder, architect, Plymouth building, Minneapolis, Minn.

**Minn., Springfield**—Contract awarded to Martin Casperson, Sleepy Eye, for erection of the Johannes Lutheran church, at \$2,110; other bidders were: S. E. Humphry, Sleepy Eye, \$3,288; Wm. Schafer, Springfield, Minn., \$3,125, Martin Casperson, architect, Sleepy Eye.

**Mont., Hedgeville**—Congregationalists will build stone edifice, 30x48, full basement; cost \$3,500; write Rev. G. J. Powell, state superintendent.

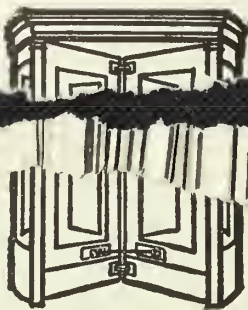
**S. D., Huron**—Frank Jaehn Construction Co., Huron, S. D., who have contract for Catholic church will begin work soon as weather permits; E. L. Masqueray, architect, St. Paul.

**S. D., Sioux Falls**—Contract awarded to Sioux Falls Construction Co., at \$33,300, for Presbyterian church, Spring av. and 10th st., work to start soon; heating, plumbing and furniture not included.

**Wis., Loyal**—Contract awarded to Krasin Bros., of Marshfield, erecting new Lutheran church building, at \$12,830; other bids, Wisconsin Construction Co., of Chippewa Falls, \$13,204; Withee Construction Co., of Withee, \$13,250; bids cover all except the heating and art glass; brick structure, seating capacity 400.



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## ELECTRICAL

*Notes Arranged Alphabetically by States.*

**Alta., Medicine Hat**—Plans are being prepared for an electric high tension distributing system; cost \$10,000; street lighting system, \$20,000; also an addition to the municipal electric generating station.

**Idaho, Pocatello**—Mountain States Telephone Co. will erect a new building here; plans are being made for conduiting and cabling of all lines; cost \$80,000.

**Iowa, Havelock**—S. H. Gill and Geo. Miller are investigating the cost of a transmission line from Laurens.

**Iowa, Larchwood**—Logan Township Telephone Co., incorporated, capital \$1,000, by John McCarty, Wm. Bunte and others.

**Iowa, Little Rock**—Little Rock Electric Co., elected officers as follows: Frank Turk, president, B. C. Abben, vice president, W. H. Grover, supervising engineer; work on plant will begin soon.

**Iowa, Mason City**—Election March 26, to vote on issuing bonds for \$50,000 for a municipal light plant.

**Iowa, Mason City**—Residents of Plymouth have been conferring with the Peoples Gas & Electric Co. of this city for a transmission line to that place for electric lights. A bond issue may soon be called to issue bonds for \$5,000 for building same.

**Iowa, Sabula**—Plans are being considered by J. A. Bradley of this place, for erection of transmission lines into the country to furnish power and lights to the rural districts; electricity to be purchased from the local plant.

**Minn., Akeley**—The Akeley Telephone Co. will make extensive improvements on the local exchange as soon as weather permits, which will include a new cable.

**Minn., Bird Island**—Mr. Rutledge, president of the Renville County Electric Co. has made arrangements for installing a new Corliss engine at the local plant; also two new generators.

**Minn., Chaska**—Commercial club has started a movement to replace old style arc lights with cluster lights on the business streets.

**Minn., Chisholm**—Excavation has started for the foundation for the electric turbine engine for the Chisholm Electric Co. The machine is being built by the General Electric Co. and will furnish 1,000 h. p.

**Minn., Eveleth**—A movement has started for a municipal electric light plant here.

**Minn., Faribault**—The American Traction Co. have made a proposition to the Commercial club to build a street car line here, if they can get a franchise; write Mayor Smith, or president Shaft of the Commercial club.

**Minn., Glyndon**—A 15-year franchise was granted to the Glyndon Electric Light Co., Oscar Wangen, village recorder.

**Minn., Hastings**—Preparations are being resumed to begin work on the trolley line between here and St. Paul; W. L. Sontag, general manager of the Interurban Construction Co., in charge of work.

**Minn., Hector**—Council granted a franchise to the Renville County Electric Co. for electric lights and power.

**Minn., Henning**—Henning-Almora Telephone Co., incorporated by J. M. Hursh, W. J. Henderson, Geo. F. Johnson and others; capital \$25,000.

**Minn., Luverne**—Northwestern Telephone Exchange Co. was granted a new franchise on condition that they rebuild local system.

**Minn., Luverne**—Council postponed letting contract for white way lighting system until March 18; four bids were received as follows: Electric Construction Co., St. Paul, \$4,319; Savage Construction Co., St. Paul, \$3,668; Northern Construction Co., Minneapolis, \$3,652; Adelbert Hubbard Electric Co., St. Paul, \$3,625; bids of Hubbard Electric and Electric Construction were rejected; the other two will be considered March 18.

**Minn., Minneapolis**—Electric Short Line and its subsidiary, the terminal company that owns the Minneapolis terminals, will build a steel and concrete railway exchange, 10-story building; cost \$700,000. H. L. Stevens & Co., Chicago, architects; Earl D. Luce, president.

**Minn., Red Wing**—The Red Wing Manufacturers' association will raise \$10,000, for the organization of a railway bridge and terminal company to survey a line across the river with Eau Claire as the object point. It is the intention to connect with the Burlington road first and extend the line on as soon as Wisconsin towns take an interest in the project.

**Minn., Round Lake**—Election March 10, to vote on issuing bonds for the erection of an electric light plant; R. D. Hart, village recorder.

**Minn., Stewart**—If bonds carry at the spring election the

Power Distribution Co., of Minneapolis, will install an electric light plant here; write Mayor Senescall.

**Minn., Waconia**—Gen. Luce of the Luce Electric Co. has made a proposition to the Commercial club to run his line through here from St. Bonifacius.

**Minn., Watertown**—Crescent Electric Co. incorporated by Guy E. Halgren and others.

**Minn., Warroad**—The Warroad Telephone Co. contemplated construction of a line from Baudette to International Falls.

**Minn., Waubun**—A franchise was granted to Chandonnet & Son, to install electric lights here.

**Minn., Winnebago City**—Commercial club is back of a movement to install ornamental lights on the business streets.

**Minn., Worthington**—Work is progressing on the new electric light and power system for Brewster, power to be furnished from here.

**Mont., Gage**—North Side Telephone Co. has been organized here to build about 20 miles of line; Jas. Batschelete, president, Alex Thompson, Jr., secretary-treasurer.

**Mont., Helena**—A new lighting system for the west side is proposed at a cost \$30,000; write Mayor Purcell or D. J. McConnell, clerk.

**Mont., Livingston**—Municipal Ownership league, Joseph Brooks, president, has taken up the question of ornamental street lights.

**Mont., Miles City**—City engineer was instructed to advertise for a new 200 k. w. generator; cost not to exceed \$1,800.

**Mont., Rygate**—Local citizens have started a movement for an electric light plant and a committee was appointed to investigate cost and plans; write village recorder.

**Neb., Lincoln**—The Municipal Ownership and Public Utilities leagues will ask city commission for a bond issue of \$200,000 for extension of the municipal lighting system.

**Neb., Omaha**—A municipal electric lighting plant, operated as an auxiliary to the municipal water works plant is under consideration by general manager R. B. Howell of the Metropolitan Water district.

**N. D., Ellendale**—A 30-year franchise was granted to J. L. Tucker; work on plant to begin within 90 days; John King, city auditor.

**N. D., Hastings**—L. M. Oppergaard owner of the local telephone exchange, will erect a new building and also a couple of farmers' lines.

**N. D., Litchville**—The Gladstone, Pearl Lake Telephone Co. will branch out to the north as soon as weather will permit, the line will have a direct connection with this town.

**S. D., Central City**—Council granted franchise to a Lead electric light company to extend wires here.

**S. D., Dallas**—Within the next two months, the Martin Electric Light & Power Co., B. H. Martin, president and manager, will purchase a turbine and generator and electrical appliances.

**S. D., Deadwood**—Consolidated Power Co. was granted a franchise for electric lights here.

**S. D., Flandreau**—The Flandreau Light & Power Co., A. H. Savage, St. Paul, Minn., treasurer, will build a 9 mile, 13,200-volt transmission line and install 100 k. w., in 13,200-volt transformers.

**S. D., Spencer**—A stock company has been organized here by local business men for installing an electric light system. Wm. Hoese is head of the company.

**S. D., Winifred**—Council is considering electric street lights, a transmission line will be built from Howard.

**Wis., Amery**—Apple River Milling Co. organized to develop electricity and sell same by E. J. Schneider, E. M. Fay and others, capital \$40,000.

**Wis., Antigo**—The Antigo Electric Co. will increase their capital stock \$10,000, for additions and improvements to their plant.

**Wis., Beaver Dam**—Proprietor Rolink of the Fox Lake Island resort will install an electric lighting plant on the island with a capacity of 4,800 lights.

**Wis., Green Bay**—The Wisconsin railroad commission has granted the Wisconsin Public Service Co., of this city, permission to purchase the property of the Minahan Electric Co., also authority to issue \$110,000 bonds to take up bonds of the latter company.

**Wis., Madison**—The petition for an ornamental street lighting system was presented to council by alderman Frank Alford.

**Wis., Milwaukee**—Judge Geiger has ordered the re-sale of the Chicago & Milwaukee Electric Road properties in this state. This action follows a similar one on the part of the Illinois federal court, which ordered the sale of the property in Illinois some time ago.

**Wis., Reedstown**—It was voted to install an electric light plant here.

**Wis., Rosendale**—Wisconsin Light Power & Milling Co. will spend \$10,000 building and equipping a hydro-electric plant and erecting transmission system in this vicinity.



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**Wis., Sheboygan Falls**—Bonds for \$9,000 were voted for an electric light plant.

**Wis., Union Grove**—Will Hary has applied for an electric light franchise and if granted will expend \$10,000 in the equipment of a plant.

**Wis., Webster**—A. J. Cairns, John McArthur and Geo. E. Miller have formed a company to build a telephone line between here and Casiyu.

**Wis., Westboro**—The Westboro Telephone Co., incorporated capital \$2,500; J. W. Kaye and others.

#### BIDS WANTED.

**Minn., Hibbing**—Bids will soon be called for for 20 blocks of white way lighting system; H. D. Haley, recorder.

**Minn., Lismore**—Bids received until March 18, by town clerk, for erection of a power house, concrete block; Earl D. Jackson, engineer, Capital Bank building, St. Paul.

**Mont., Miles City**—Bids received by J. E. Farnum, city clerk, 3 p. m., March 9, for 20 fire alarm boxes; check for \$100.

**Wis., Evansville**—Bids received till 1:30, March 12, for building an addition to the city power house, by F. W. Gilman, city clerk; check for \$150; plans on file with the city clerk.

## ELEVATORS

*Notes Arranged Alphabetically by States.*

**Alta., Calgary**—Site has been purchased and plans are being drawn for terminal elevator, by the government; bids called for in May.

**Iowa, Des Moines**—The old starch works building on the Des Moines Union right-of-way, in Chesterfield, will be converted into a large grain elevator; capacity 250,000 bushels, Taylor & Patton, interested.

**Minn., Burbanks**—Ole Larson is preparing to erect a set of farm buildings this summer.

**Minn., Brainerd**—Ed. La Force, a Morrison county farmer lost his barn by fire; loss \$3,000.

**Mont., Clyde Park**—Farmers' Co-operative Elevator will be erected here; estimates are being received; plant will be in operation by fall.

**Neb., Courtland**—The stockholders of the Courtland Farmers' Grain & Coal Co. have voted to erect a new \$10,000 elevator; J. T. Wallen, president, W. T. Robbins, secretary, work to start soon.

**Neb., Lawrence**—Mr. Van Ness, contractor, Fairbury, met committee in regard to constructing elevator.

**Neb., Weeping Water**—The Wabash Grain Co. let contract to G. H. Burchard of Lincoln for erection of a 17,000-bushel elevator.

**N. D., Northwood**—Fire destroyed the Heising Grain Co. elevator; loss about \$12,000.

**S. D., DeSmet**—Farmers' Co-operative association decided to build a 40,000 bushel capacity elevator; modern.

## GARAGES AND BARNs

*Notes Arranged Alphabetically by States.*

**Iowa, Burlington**—The barns of Dr. Roe, John Anderson, Rev. S. M. Leshner, and the Hawksworth's barn burned.

**Minn., Argyle**—Large barn of Clovis Proulx burned, loss about \$7,000; insured at \$4,500.

**Minn., Austin**—A 2-story modern garage will be erected by Max Erdmann.

**Minn., Deerwood**—A \$25,000 garage will be erected here the coming summer.

**Minn., Faribault**—Mont Clossen's barn burned, loss \$3,000; partly insured.

**Minn., Hector**—Theo. Albright is planning to erect a garage here soon.

**Minn., Marshall**—Heagle & Van Doran have started a 2-story garage; brick, 66x140.

**Minn., Milan**—J. A. Anderson will erect a large fireproof garage.

**Minn., Reading**—H. W. Moyer will erect a modern garage here.

**Minn., Slayton**—The Slayton Automobile Co. have begun work on an addition, 25x140, to their garage.

**Minn., St. Charles**—John Foley is preparing to erect a large barn; J. W. Tierney will also erect a large barn.

**Minn., Waconia**—Albert Luebke will build an 18x70-foot addition to his barn, also a silo.

**Minn., Wadena**—Henry Ebner will erect a modern fireproof garage, pressed brick front, contract let to N. O. Nelson, of this city, 1-story, 50x140.

**Mont., Chester**—A. O. Lee plans erection of a repair shop and garage, 24x50.

**N. D., Embden**—The large barn on the Gray farm burned.

**N. D., Grand Harbor**—Fire destroyed the large barn of Dan Norden.

**S. D., Huron**—A. Girard is arranging to build a large modern livery barn this summer; 150x40, brick, thoroughly fireproof, electric lights, concrete floors, cost about \$5,000.

**Wis., Belle Plaine**—Frank Pankow is building a barn.

**Wis., Dallas**—Robt. Pecore is planning on erection of a large barn, 36x124.

**Wis., Fall Creek**—Ed. Stubbe & Walter Stelter have purchased a site and will erect a modern garage, concrete, 30x40, steel roof.

**Wis., Greenwood**—Ben Wood will build a large basement barn.

**Wis., Milwaukee**—George Hummel is planning to erect a \$15,000 garage.

**Wis., Two Rivers**—George Cargie plans to erect a modern garage.

## MISCELLANEOUS

*Notes Arranged Alphabetically by States.*

**Minn., Duluth**—Bidders for fir timber for the breakwater at Agate Bay, Minn., and Marquette Bay, Mich., bids opened Feb. 26, by Capt. E. D. Peek, corps of engineers, U. S. Army, were as follows: White Star Lumber Co., Whites, Wash., \$1,506; Mumby Lumber & Shingle Co., Minneapolis, Minn., \$1,547; Edward Hines Lumber Co., Chicago, Ill., \$1,873; Commonwealth Lumber Co., Seattle, Wash., \$1,466; Elias & Bro., Buffalo, N. Y., \$1,710; Fir Tree Lumber Co., Tacoma, Wash., \$1,458; Northwest Lumber Agency, Tacoma, Wash., \$1,449; Central Warehouse Lumber Co., Minnesota Transfer, Minn., \$1,531; Keystone Lumber Co., Minneapolis, Minn., \$1,629; McCormick Lumber Co., McCormick, Wash., \$1,466; Corey Bros. Co., Superior, Wis., \$1,629; Union Lumber Co., Union Mills, Wash., \$1,466; Duncan Lumber Co., Portland, Ore., \$1,629; H. B. Waite Lumber Co., Minneapolis, Minn., \$1,449; Tacoma & Eastern Lumber Co., Tacoma, Wash., \$1,531; Lumber Manufacturers' Agency, Centralia, Wash., \$1,547. The bid of H. B. Waite & Co., Minneapolis, was recommended for acceptance.

**Wis., Ashland**—Preliminary steps are being taken by Charles A. Park, superintendent of construction of the light-house service of the United States, for building a lighthouse on the Ashland breakwater, cost \$25,000. Actual work may not begin before June 1; undecided whether to let contract or for government to build.

**Wis., Two Rivers**—The engineering department has recommended that \$25,000 be appropriated for the improvement of the harbor here.

#### BIDS WANTED.

**Minn., Minneapolis**—Bids received by Kossuth E. Alexander, city purchasing agent, until 3 p. m., March 2, for 15 fire alarm boxes; check for \$50.

**Mont., Glendive**—Bids received by C. W. Bowles, city clerk, until 8 p. m., March 2, for the laying of approximately 3,500 cubic yards of rip-rap.

#### CONTRACTS AWARDED.

**Minn., Mountain Iron**—Contract for a steam pump, 14x8x12, with the Platt Iron Works, Dayton, O., at \$660, through J. F. Gould, Minneapolis. Other bidders were: Advance Pump & Compression Co., 14x7x12, \$400; Dwyer-Field Co., 14x7x14, \$575; Worthington Co., 14x7x12, \$384; Worthington Co., 14x8½x12, \$585; Whitacre & Co., 14x7x12, \$447; Prescott Co., 14x7x12, \$800; Marshall-Wells Co., 14x7x12, \$560; Fairbanks-Morse Co., 14x7x12, \$417.50; Platt Iron Works, 14x7x12, \$585; Platt Iron Works, 14x8x12, \$660.

## RAILROADS

*Notes Arranged Alphabetically by States.*

**Alta., Bassano**—C. P. R. will spend \$200,000 on improving and enlarging the dam here.

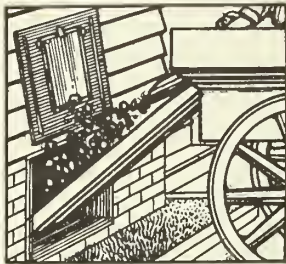
**Iowa, Tiffin**—Fire destroyed Rock Island station; total loss \$6,000; fully insured.

**Mich., Iron Mountain**—Milwaukee road will build new station here; cost \$25,000; separate structure for baggage, express and heating plant; total cost about \$50,000.

**Man., Winnipeg**—Canadian Northern announces lines will be built this year: Bruiderheim to Vermillion, Vermillion to Wainwright, Wainwright to Medicine Hat and boundary; all in Alberta, connecting up through line to Twin Cities from Edmonton.



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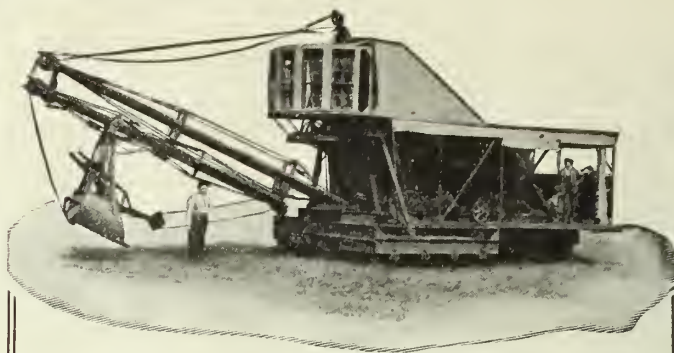
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West Duluth, are being made by chief engineer; will be ready soon; W. A. McGonagle, president.

**Minn., Emerson**—C. F. R. depot burned.

**Mont., Great Falls**—Plans submitted by Great Northern for construction of 1st av. N. subway, approved by the city; bids will be called for at once; to be done July 1.

**Mont., Helena**—Mayor announced Northern Pacific subway on Roberts st. would be built soon; cost \$45,000; city to pay \$10,000.

**Neb., Brock**—Missouri Pacific will enlarge and improve station with new platform, 6x265.

**Neb., David City**—Burlington road probably will build a new station.

**Neb., North Platte**—City council adopted resolutions to compel U. P. to build station.

**Ont., Ottawa**—Canadian parliament has passed bill incorporating Central Western Canada Railway, capital \$8,000,000; Winnipeg to Edmonton, via Yorkton, Saskatoon and Battleford, 780 miles.

**Minn., Forada**—Soo station here burned.

**Wis., Merrill**—Secretary F. W. Kubasta of Minneapolis and Marinette road has received certificate from state railroad commission, to proceed with construction; permanent survey made; Merrill to Athens, Marathon county.

**Wis., Sparta**—Motion for rehearing of decision against Union station here, will be heard by railroad commission April 25.

**Wis., Weyerhaeuser**—Soo road is constructing a big ice house here; on latest plans; three walls, with dead air space and sawdust filling.

## BUSINESS BUILDINGS

*Notes Arranged Alphabetically by States.*

**Alta., Gadsby**—Fire destroyed the following buildings which may be rebuilt soon; the International Harvester Co., Brown's pool room; Gadsby postoffice; Fraser's harness shop; Ross Pringle's restaurant; Gloutman's real estate office, Long's drug store.

**Alta., Irvine**—Fire destroyed the Hauseur's butcher shop the general store of Fred Weiss & Son, and general store of Carl Bemy, may be rebuilt.

**Alta., Okotoks**—Fire destroyed business buildings, one occupied by H. F. McLeod and W. C. McLeod, of Calgary; one by Mrs. E. W. Wilson; arrangements being made for rebuilding.

**Iowa, Britt**—J. H. Jeffers, architect, Mason City, Iowa, has prepared plans for a store building of two stores, 44x98, 1-story and basement; pressed brick, cut stone trim, galvanized cornices, plumbing, wiring, heating, tile and R. C. floors, plate and prismatic glass, luxfer prism, gravel roof, steel ceilings, Simmons & Erwin, owners.

**Iowa, Council Bluffs**—Leonard Everett has let contract for two business buildings, 1-story, estimated cost \$25,000.

**Iowa, Creston**—Fire destroyed the Osbel grocery; loss \$5,000; partly insured.

**Iowa, Ft. Dodge**—W. J. Zitterell of Webster City, whose firm has contract for erection of two Snell buildings, will resume work; plans have also been drawn for erection of a building for A. D. McQuillin.

**Iowa, Lakota**—Fire destroyed two store buildings here, owned by G. J. Thomas, of Oskaloosa, and T. E. Littlejohn.

**Iowa, Marshalltown**—Fire practically destroyed one building of the Marshalltown trowel works; loss about \$10,000; insured \$4,000.

**Iowa, Mason City**—Work has started on the erection of a large 2-story brick building for the Mason City Plumbing & Heating Co., Chas. E. Green, owner, 50x120.

**Iowa, Mondamin**—Fire destroyed the drug store harness shop, town hall and barber shop here; loss \$4,500; partly insured.

**Iowa, Osage**—Wm. McGill has purchased site and will erect a store in the spring.

**Iowa, Sioux City**—A building permit was issued to A. Weinstein for repairs to his store; cost \$800.

**Iowa, Waterloo**—The Waterloo Malting Co.'s house burned; loss estimated at \$35,000; insured.

**Minn., Adams**—M. Schneider is getting out plans for a 2-story brick business block, 30x80.

**Man., Portage la Prairie**—The Hudson's Bay Co. rebuilt its local store here.

**Minn., Clear Lake**—John Lhotka will build a new store building here.

**Minn., Duluth**—A brick business building will be erected by A. Fieldman at 314 N. Central av., cost \$12,000; 2-story, 25x125.

**Minn., Duluth**—A concrete reinforced store and office build-

ing will be erected by Ernest Demin at 12th and Galena st., 50x100, 2-story, 4 stores and 3 offices and 3 flats.

**Minn., Foreston**—Fire destroyed a store, butcher shop and postoffice building; estimated loss \$20,000.

**Minn., Minneapolis**—Permit for erection of a 2-story iron-clad warehouse, 90x174, at 1809 5th st. SE., has been secured by Curtis-Yale-Howard & Co., cost \$20,000.

**Minn., Park Rapids**—Fire destroyed Pure Food building; loss \$20,000; plans ready for new building and will advertise for bids at once; insured at \$14,000; company incorporated, G. D. Hardmar, U. S. G. Henry and D. C. Fuller.

**Minn., Pine City**—Excavation has started for the new Pine City State Bank building; V. F. Joslin, contractor.

**Minn., Rockville**—Theodore Mienz plans to erect a new business building in this city, modern, 24x70.

**Minn., Thief River Falls**—The Thief River Falls Manufacturing Co. have contract for furnishing the entire lot of interior fixtures for the Loken Bros' new store, show cases, shelves, counters, etc.

**Minn., Tracy**—Fire destroyed Kaechele furniture store, loss about \$8,000; insured \$5,000; Bodega restaurant, loss \$1,800; Henry Thavis, plumber, loss \$1,500; total loss \$50,000.

**Minn., Virginia**—C. K. Shand is at work on plans for 2-story brick building; work to start in spring.

**Mont., Burgoyne**—H. A. Bolles of Cushman, is building a store building at the Transfer station; I. S. Johnson, carpenter.

**Mont., Ronan**—Ronan State Bank and others interested will build block of offices; George Covalt will also build office building.

**Neb., Anselmo**—Henry Kelly is wrecking pool hall to erect a brick building.

**Neb., Columbus**—Will Boettcher contemplates erection of a business block.

**Neb., Dakota City**—Fire destroyed business section of this city; loss about \$10,000.

**Neb., Hastings**—Plans for 2-story and basement business block, 44x125, have been accepted by Mr. and Mrs. Herbert Knox Smith.

**Neb., Lincoln**—The Shader 2-story block and the 2-story brick building being erected by Frank Harris are nearing completion; also the H. J. Hall brick block; cost of Shader block, \$20,000; Harris and Hall blocks, \$10,000 and \$8,000, respectively.

**Neb., Linwood**—John Kavney contemplates erection of a 2-story brick building.

**Neb., Norfolk**—The Durland building recently burned will be replaced by a modern store building, work to commence soon.

**Neb., Ong**—Henry Litch is building store.

**Neb., Orchard**—Brick building will be erected on present site of the Goldsmith store.

**Neb., Seward**—Geo. Berlinghoff of Lincoln was in city conferring with building committee of the Mutual Fire association in regard to plans for its new building; plans to be ready in a short time.

**Neb., So. Sioux City**—J. W. Hazelgrove will build a business and apartment block, 24x80, full basement, modern.

**N. D., Dickey**—Fire destroyed pool hall of Mr. Christensen; also the Weber building, insured.

**N. D., Gladstone**—Krier & Wager's general store burned, loss \$10,000.

**N. D., Mayville**—The Wellan-Tryhus mercantile store burned; total loss \$18,000; insured.

**N. D., Richardson**—Fire destroyed the Klien Mercantile store.

**Ont., Ft. William**—Mr. I. H. Braden and Dr. T. E. Dean are getting plans out for erection of a new 2-story mercantile block, on Syndicate av., work to commence this season.

**Ont., Port Arthur**—Erection of a 5-story block on corner of Cumberland and Lorne st. is being considered by Colonel S. W. Ray.

**Sask., Acme**—Fire destroyed the general merchandise store of Randall & Brown, and Long Hai restaurant, may be rebuilt.

**Sask., Chaplin**—Fire destroyed 6 stores here; loss about \$100,000.

**Sask., Regina**—J. H. Puntin will call for bids for completion of a 5-story warehouse, for Campbell, Wilson & Strathdee.

**S. D., Artesian**—M. C. Dowell is contemplating erection of a new 2-story fireproof building.

**S. D., Brookings**—Work of razing the old Stead building has begun a modern brick building will be erected soon as spring opens.

**S. D., Brookings**—Andrew Wold will erect a brick building.

**S. D., Brookings**—W. M. Cheever is contemplating erection of a new building this coming year.

**S. D., Flandreau**—G. E. Pettigrew will build a brick building for a postoffice.

**Wash., Centralia**—Contract awarded to Matt Alberts, local





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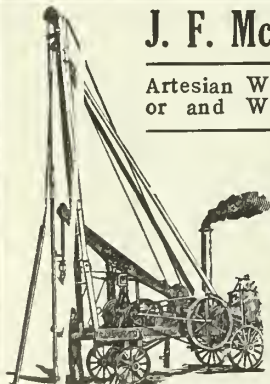


407

6th Avenue  
South



Minneapolis  
- Minnesota -



Manufacturers of

Sewer Pipe      Culvert Pipe  
Well Curbing      Drain Tile  
Flue Lining      Wall Coping

Iowa Pipe & Tile Co.

DES MOINES, IOWA

## BEDFORD CUT STONE THE EDWARD EDINGER COMPANY

CEGAR RAPIDS, IOWA  
PLANS RECEIVED FOR ESTIMATE RETURNED VERY PROMPTLY

¶ If you wish to secure competent help or a better position, our Free Help Wanted section affords you an opportunity to do this without the expense of advertising. ¶ Write your want in 20 words and mail to The Improvement Bulletin.      ::      ::      ::      ::      ::



contractor for erection of business building for Julius Koch.

**Wis., Hazel Green**—John P. Burns is having contractors figure on new store building with flats above, to be erected this spring.

**Wis., Milwaukee**—Building started to replace quarters of Goodyear Rubber Co., burned; 6-story, 50x150.

**Wis., Rhinelander**—Oneida Gas Co. will remodel office building, brick, modern.

**Wis., Rosholt**—Frank J. Spalenka, architect, Stevens' Point, Wis., prepared plans for a 2-story store building for J. L. Jensen; 41x125, full concrete basement, steam heat, hardwood floors, steel ceiling, hard wall plaster, iron beams, patent store front.

**Wis., Superior**—Office building will be erected by Geo. Newton; cost \$25,000.

**Wis., Superior**—F. E. Johnson, architect, Superior, Wis., prepared plans for a bakery building for G. W. Leamout; bids taken by architect, steel beams, cast columns, common pressed brick, addition to 1-story, and new equipment, ovens, conveyors, etc.

**Wis., Wausaukee**—The store occupied by Shevey & Shevey, was burned; total loss.

**Wyo., Casper**—W. C. Metzger states that plans will be drawn by an architect, for a brewery building here.

**Wyo., Casper**—The new McClure block is adding another story.

**Wyo., Worland**—Geo. Davis has contract for erection of a new building, 25x42.

#### BIDS WANTED.

**Minn., Swanville**—Plans are being drawn by R. C. Buckley, St. Cloud, Minn., for banking and store room; bids to be called for about March 15, work to commence early in spring; 37x80, Kiewel Brewing Co., Little Falls, owners; cost \$6,500.

**Minn., Detroit**—Bids received until March 16, for the following contracts; heating, plumbing and ventilation, general contract, painting and decorating; plans on file at Security State Bank, Detroit; H. S. Erickson, cashier.

#### CONTRACTS AWARDED.

**Minn., Buffalo Lake**—Contract awarded to Contractor Braun, Boettcher & Braun, for store for Ben Petzke, 30x60.

**Minn., Crookston**—Contract for erection of the new Polk County State Bank and L. W. Larsens' machinery building was awarded to Otto Eichoff; cost about \$50,000.

**Minn., Duluth**—Architect C. H. Tharinger has awarded contracts for erecting a store and apartment building at 27th and Center sts., will contain four stores and 16 apartments, 4-story, 90x108.

**Mont., Denton**—Contract awarded for First State Bank of Denton, to B. Stanton, Billings, Mont., \$5,400; E. Clinton, Denton, \$5,600; Chaffee Bros., Denton, \$6,400; F. Denhart, Denton, \$6,100; Lang Engineering Co., Great Falls, \$6,430; Lewistown Milling Co., Lewistown, Mont., \$6,900; J. D. Sellars, architect.

**Mont., Great Falls**—Robert S. Ford and the Commercial Trust & Savings Bank awarded contract to the Brayton Engineering Co., of Portland, Ore., for erection of 5-story bank and commercial building, to be completed by Oct. 1, 1914.

**Neb., Nebraska City**—D. C. Proper received contract for erection of the L. W. Rodenbrock grocery store, addition; also contract for erection of the P. H. Niemann building, modern, 24x50, brick.

**Neb., Wahoo**—Contract awarded to James O'Donnell, for erection of store building for J. M. Machovec, 22x28, modern.

**Neb., Wilber**—Frank Pulee is erecting a blacksmith shop.

**N. D., Devils Lake**—E. W. Gilbertson plans extensive remodeling of his large furniture store.

**Wyo., Cody**—Contract awarded to G. W. Schwood, for erection of the building and basement of the new Cody Trading Co. building.

## NEW FIRMS INCORPORATED

*Notes Arranged Alphabetically by States.*

**Iowa, Bedford**—Lake Implement Co., W. H. Lake.  
**Iowa, Des Moines**—Des Moines Motor & Supply Co., F. W. Newton and others.

**Iowa, Des Moines**—Des Moines Tent & Awning Co.

**Iowa, Larchwood**—Logan Township Telephone Co., \$1,000; John McCarty.

**Iowa, Mason City**—Mason City Hardware Co., \$20,000; F. A. Stevens, president.

**Iowa, Muscatine**—Muscatine Hotel Co., \$250,000; N. Barry.

**Minn., Crosby**—Hill-Cuyuna Mining Co., \$150,000; Peter C. Quelette.

**Minn., Duluth**—Barton Iron Co., \$300,000; Geo. H. Gamble.

**Minn., Lake Crystal**—James Land Co., J. C. James and others.

**Minn., Minneapolis**—Roesti Art Glass Co., F. G. Brooberg, president, \$15,000.

**Minn., Minneapolis**—Tire Supply Co., M. J. Rosenstein, president, \$50,000.

**Minn., Minneapolis**—Silo Equipment Co., \$100,000, Spencer Lee Fraser.

**Minn., Red Wing**—The Kroeger-Back Lumber Co., F. Kroeger and others.

**Minn., Sacred Heart**—Farmers' Development Co., A. O. Skrukud and others.

**Minn., Thief River Falls**—Thief River Falls Iron Works, C. L. Diefenbacher, capital \$25,000.

**Minn., Watertown**—Crescent Electric Co., Guy E. Halgren, \$10,000.

**Mont., Billings**—Golden Rule Mercantile Co., \$50,000; Carl Freidman.

**Mont., Fife**—Fife Mercantile Co., \$10,000; Ira McGhee, Great Falls.

**Mont., Great Falls**—Gamble Robinson & Co., \$50,000; R. A. Gamble, Minneapolis, Minn., S. McKenna, Helena, Mont.

**Mont., Hardin**—The Hardin Alfalfa Products Co., \$25,000; G. F. Burla.

**Mont., Roberts**—Farmers' Building Association.

**Mont., Virginia City**—Lehigh Gold Mining Co., Hugh and John Thomas.

**N. D., Jamestown**—Sanitary Milk Co., J. Schelde, \$25,000.

**N. D., Minot**—South Prairie Farmers' Telephone Co., C. M. Christianson, \$10,000.

**S. D., Huron**—Sanitary Refrigerator & Table Co., Phillip Lawrence.

**S. D., Huron**—Huron Creamery Co., C. K. Ricker, capital \$10,000.

**S. D., Marion**—Marion Light & Power Co., capital \$25,000, J. A. Heeren, John Groepe.

**S. D., McIntosh**—McIntosh Electric Co., \$5,000, F. W. Luks.

**S. D., Pierre**—Utility Specialty Co., \$50,000, John A. Holmes.

**S. D., Pierre**—South Denver Water Co., Karl Goldsmith; \$150,000.

**S. D., Pierre**—Wood's Kero Gas Burner Co., H. G. Fuller, \$10,000.

**S. D., Pierre**—Hazel Mines Incorporated, Jas. S. Sebree; \$100,000.

**S. D., Pierre**—Ed. Gerarde Perfume Co., L. L. Stephens, \$25,000.

**S. D., Pierre**—The Pink Polish Manufacturing Co., L. A. Munson, \$50,000.

**S. D., Pierre**—The Adjutant Co. of Minneapolis, Jas. S. Sebree, \$4,000.

**S. D., Sioux Falls**—Carpenter Hotel Co., R. C. Platt, \$30,000.

**S. D., Watertown**—Watertown Flax Products Co., Richard Alm.

**Wis., Eau Claire**—The Cast Stone Construction Co., \$25,000; W. S. Kelley.

**Wis., Sheboygan**—Crystal Lake Rock & Gravel Co., \$5,000; Edwin Hammett.

**Wis., Sheboygan**—Crystal Lake Crushed Stone Co., Aug. Westermeyer, \$5,000.

**Wis., Westboro**—Westboro Telephone Co., \$2,500, J. W. Kaye and others.



## RESIDENCES



*Notes Arranged Alphabetically by States.*

**Iowa, Boone**—Charles Nelson plans to erect a dwelling in March, (not a postoffice).

**Iowa, Creston**—Chas. M. Hood will erect a modern residence in the spring.

**Iowa, Ft. Dodge**—Andrew Swanson will erect a new modern residence, in Cowrie, not a (postoffice).

**Iowa, Iowa City**—Fire destroyed the home of A. C. Swartz-ruber; loss about \$5,000; insured.

**Iowa, Manley**—C. J. Randall has let contract for a new cottage, 32x26, with large porch and basement.

**Iowa, Mason City**—An apartment house will be erected on site of the Wier Wardrobe Co. plant recently burned; owner T. A. Potter.

**Iowa, Red Oak**—Chas. Samuelson plans to build a modern, 7-room cottage.

**Iowa, Union**—Glenn Haggin will build a modern bungalow.

**Iowa, Webb**—S. R. Green will erect a modern residence.

**Iowa, Winterset**—John Armstrong will build a modern residence in Peru, (not a postoffice).

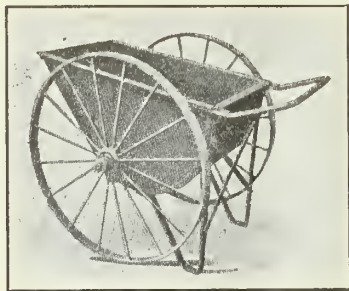
**Minn., Breckenridge**—F. S. Geidl is erecting a cottage.

**Minn., Buffalo Lake**—Jacob Reck will remodel old creamery into a modern dwelling.

**Minn., Kasson**—Jone Fiegel will erect a large modern residence; cost \$1,500.



## CONTRACTORS' NECESSITIES



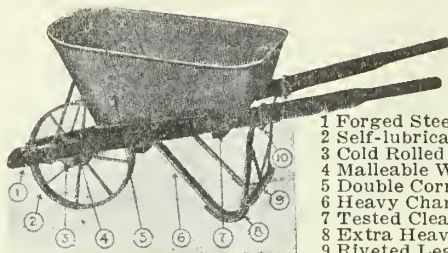
### Rayco Wheelbarrow Derrick

Easy to set up and move. Constructed the same as power derrick, but is operated by steam, gasoline or other power. Equipped with an automatic stop to prevent the boom from swinging. Weight of complete derrick, 225 pounds. Capacity 1,500 pounds.



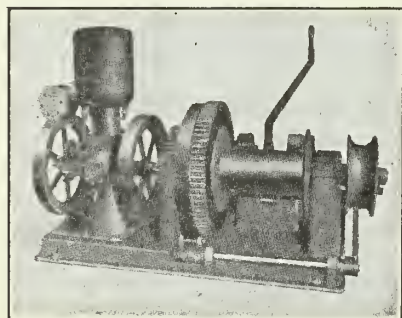
### Concrete Cart

Capacity 6 cubic feet, thin sloppy concrete; 7 feet dry material. No weak spots. A perfect cart. Weight, 215 lbs., 36-inch wheels.



### Concrete Wheelbarrow

- 1 Forged Steel Wheel Guard
- 2 Self-lubricating Wheel
- 3 Cold Rolled Steel Shaft
- 4 Malleable Wheel Supports
- 5 Double Cornered Riveted Trays
- 6 Heavy Channel Steel Legs
- 7 Tested Clear Maple Handles
- 8 Extra Heavy Leg Shoes
- 9 Riveted Leg Braces
- 10 Patented Handle Clamps



### NOVO Rayco Hoisting Outfit

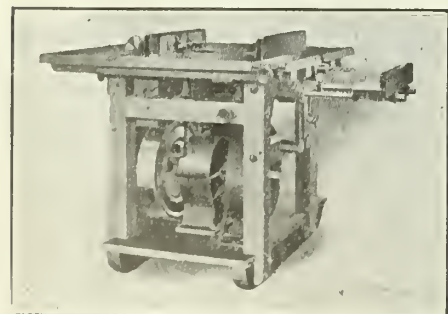
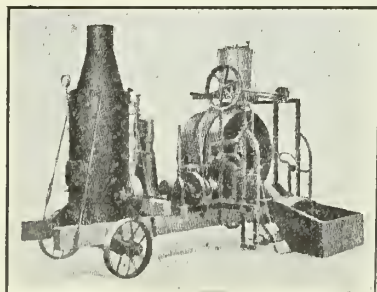
with 6 H. P. Engine, or 8-10 H. P. Engine. Contractors usually use these outfits with a double platform elevator.

Write for prices.

### CHICAGO Mixer

### "NUF-CED"

Write us for Special Catalog.



### American Rayco Saw Rig

A complete mill with power. Boring, Jointing, Jig sawing, Sanding, Riping and Cross Cutting.

New location after February 1st 60 and 62 East 5th St.

**RAYMER HARDWARE CO.** 56-58 & 60 E 5th St. ST. PAUL, MINN

Minn., Little Falls—The old Germania Hall will be remodeled into a modern 2-flat building; Geo. Moeglein, Sr., owner.

Minn., Parkers Prairie—Edw. Kientz has commenced erection of a dwelling.

Minn., Red Lake Falls—Bids received until March 2, noon, for erection of a parsonage for the St. Hilaire congregation. Creck for \$1,000; plans on file at office of N. A. Nelson.

Minn., St. Cloud—Permit issued to Frank Rass for erection of a modern house, frame construction, 24x26, 1½-story, cost \$1,500.

Minn., Twig—Edward Anderson is erecting a large residence, modern.

Mont., Billings—Work will soon start on a 2-story apartment house cost \$10,000, modern throughout, erected by Jos. Zimmerman, four apartments, brick; contract not let.

Mont., Hingham—Excavation for the Methodist Episcopal parsonage is completed. Clifford Catt, contractor; bungalow style.

Mont., Culbertson—Adee Vail is building a new house; contractors, Joe Mallick, Joe Ferrer, Ed. Weinrich.

Mont., Great Falls—Permit issued to H. F. McCram to erect a 2-story frame apartment house; cost \$7,000.

Mont., Lewistown—The Boulevard Apartment Co., incorporated and will take over large apartment house being erected by Pettifer & Walker, nearing completion; cost \$60,000.

Mont., Livingston—George Armstrong will erect a modern residence.

Neb., Alliance—Mrs. Sam Albro has let contract for erection of a modern residence to A. S. Mote. Cost about \$3,000.

Neb., Curtis—Bett Schroeder is excavating for erection of a new residence, work to commence soon. Elm Creek—Fred Shoemaker has foundation in for residence. Clarkson—Jos. A. Rozmarth is having a 5-room bungalow built. C. E. Gregory, contractor. Ainsworth—Ray Pratt is erecting a dwelling. Crab Orchard—O. J. Werner has let contract for erection of a modern dwelling to Omer Platt & Sons. Ainsworth—A. C. Budde is erecting a new residence. Davenport—C. U. Fransen of Ong, has contract for erection of a residence near this city.

Neb., Potter—Work has been started on a 20x30 bungalow for Ray Babcock; contractors, Peterson & Kalstro; modern. John Ridgway will build. G. B. Fehmerling has contract for erection of a new dwelling. Welsh—W. E. Powers will soon erect a modern 6-room cottage. Ord—Charlie Masin has contractor figuring on plans for erection of a residence. Newman—A. O. Larson will erect a modern residence. Dannerog—Jasper Esopson and Soren Soelberg have contract for erection of a residence for Lewie Neilson. Linwood—The Kaveny Bros. will erect a modern residence soon. Lewellen—Roy Crosser is building a new house. Lodge Pole—Louis De Brunner has contract for erection of a house for C. E. Ommer; Louis Pierce will erect a modern residence. Lexington—T. W. Hanna is building an 8-room house, modern throughout. Kenesaw—M. E. Woodworth has contract for erection of a modern residence for Robert Coulter. Kearney—Geo. Harris has purchased lot and will erect a bungalow. Hoskins—Arnold Pfeil will erect a modern residence, 1-story. Chappell—W. H. Thompson will build a modern dwelling. Chadron—Excavation has been started for residence for Attorney Frederick Crites. Charles Munkers is erecting a residence. Big Spring—Bergren & Olson have contract for erection of residence for L. D. Beadle. Auburn—Herman Yelkin is erecting a new residence, 37x43.

Neb., Fairbury—T. A. Johnson of Fairbury has contract for erection of a \$5,000 farm house for H. E. Fairchild.

Neb., Neligh—A. J. Blesh of Oakdale has contract for erection of a house for Will May, this city. South Sioux City—Work has started on two residences for Harvey A. Phillips. Winnebago—W. V. Shadbolt is building a new house. Pauline—Andy Peterson of Glenville is having a residence built on his farm here. Heye Flesner, contractor. Washington—Arthur Robey has let contract to Geer-Harrison Co., for erection of a 2-story modern residence, electric lights. Gibbon—Allen Wiseman is contemplating erection of a modern residence soon (Elm Island, not a postoffice). Gresham—Ed. Zersen is having new house erected on his farm, Ed. Brown, contractor. Gresham—John Lindstrom has contract for construction of C. A. Lindstrom's new bungalow.

N. D., Grand Forks—Martin Tullgren & Sons have taken permit for erection of a \$60,000 apartment house at Kane pl. and Prospect av., 12 apartments.

N. D., Hankinson—Dr. Young plans to build a house.

S. D., Aberdeen—J. W. Henry, architect, Aberdeen, S. D., has drawn plans for a residence, 28x45, 2-story, for Henry Wilber; frame, cost \$5,000, concrete foundation, common and pressed brick, shingle roof, wood cornice, D. S. glass, Imperial plaster, hot water heat, maple floors, birch finish, boilers, two bath rooms, cementing, decorating, electric bells and lights, fire brick, one grate, gas fixtures, wire lath, plumbing, screens, storm sash. Plans out in three weeks. Day labor.



S. D., Spencer—E. W. Reed will erect a modern residence. H. C. Lueth will erect a modern dwelling.

S. D., Veblin—A. W. Thompson will erect a modern dwelling.

Wis., Bloomer—Fire burned the residence of Wm. Hicke- their loss \$1,200.

Wis., Chilton—Geo. Horst purchased site and will erect a modern residence, cost \$3,300.

Wis., Chippewa Falls—L. Caldwell will erect a house.

Wis., Dodgeville—David M. Evans will erect a modern residence.

Wis., Marshfield—Immanuel's Lutheran church will erect a parsonage; cost \$5,000. Herman Kehrberg, chairman of committee.

Wis., Racine—John Stransky, contractor, was awarded contract for erection of 2 residences for Keefe & McLaughlin.

Wis., Shawano—Henry Kittelson will build a modern residence.

Wis., Shell Lake—John Henrekson is planning to build a large dwelling soon.

Wis., Stevens Point—Frank Spalenka & Co., contractor, builders and designers, have prepared plans for a parsonage for St. Mary's congregation; Rev. G. L. Yankowski, rector, Stevens Point, Wis., No. 6; solid brick, cement floors, shingle roof, yellow pine finish, hot air heating, plans ready for figuring; write to pastor.

Wis., Stevens Point—F. Spalenka, architect, Stevens Point, Wis., prepared plans for a 2-story residence for J. Harzmarek; 30x40; cost \$3,000; bids taken until May; frame.

Wis., Superior—Two-story brick flats will be erected by Fred Berthiaums, 38x60; F. E. Johnson, architect, Superior, prepared plans; there will be 2 4-family, 5-room flat buildings; reinforced concrete, fireproofing, common, pressed and hollow brick, hot water heat, gas, electric lights, sheet metal cornices, sky lights, composition roof, common plaster, corner bead, paint, varnish, art and leaded glass, oak finish; bids received March 15, by owner.

Wis., Waukesha—As soon as weather will permit work will start on residence for the superintendent of Wisconsin industrial school.

## PARKS AND CEMETERIES

Minn., Hibbing—Plans for an observatory in which all kinds of flowering plants will be exhibited are being made by the park board.

Minn., Winona—A movement has been started for 3 or 4 more playgrounds in the city the coming summer.

Mont., Billings—Many extensive improvements will be made in the parks here this year. Mayor Leavens, T. A. Snidow, vice president and others committee.

## STRUCTURAL STEEL.

Structural material market, Pittsburgh.—A great deal of large work is under way and being figured on, but actual orders placed in the past week were light. The John Eichleay, Jr., Co. has taken 500 tons for an office building for the Delaware & Hudson railroad at Albany, N. Y., and the American Bridge Co., 250 tons for a new building for the General Chemical Co. at Marcus Hook, Pa. Large work in the market includes 8,000 tons for an office building for the Great Northern railway at St. Paul and the Memphis railroad bridge across the Mississippi river about 22,000 tons. The local telephone building, about 8,000 tons, has not yet been placed. Prices are firm and we quote beams and channels up to 15 inches at 1.25c., f. o. b. Pittsburgh, but on a very desirable tonnage for prompt shipment 1.20c., could be done. On small lots as high as 1.30c., is being asked.

Structural material, Chicago.—The lettings of the week included a bridge and two buildings at Kansas City aggregating 830 tons, distributed between the local shops. The Minneapolis Steel & Machinery Co. took 500 tons for a theater at Minneapolis and 147 tons for a normal school at Cheney, Wash. The American Bridge Co. will furnish 211 tons for a bridge in California. Other contracts brought the total for the week up to about 2,000 tons. Preliminary figures are being asked on the Plankinton hotel at Milwaukee, which will require about 6,000 tons. A project is under way at Chicago for the building of a 14-story hotel at Madison and Canal sts. The Mt. Vernon Car Manufacturing Co. is placing about 2,000 tons for 500 cars taken last week. Mill orders for shapes are holding up well. For Chicago delivery, from mill, we quote 1.31c to 1.48c. For Chicago delivery, from store, we quote 1.75c.

## TWIN CITY NEWS.

The Diebold Safe & Lock Co. are completing the two largest and strongest burglar-proof vaults in the northwest for the First National Bank of Minneapolis, for their new 20-story bank and office building. These vaults embody the best protection known against burglars. The outer walls are of very heavy concrete, reinforced with heavy steel prison bars, making an entire cage throughout the concrete. Inside of this is placed a heavy drill-proof steel lining. The entrances are guarded by two massive doors, which are 17 inches thick at the edge, and weigh approximately 15 tons each.

Twin City Arcade news: K. F. Lott & Co., Minneapolis and St. Paul furnished the terra cotta for the new St. Paul Arcade and have the contract for the terra cotta for the new Minneapolis Arcade, at 5th and Hennepin av.

## ASBESTOS-COATED STEEL INDESTRUCTIBLE!

Here is a new construction material—asbestos-covered steel—which is said to be practically indestructible. The Duckback brand, for exterior use is composed of a steel sheet, of U. S. Standard gauge, 18, 29, 22, 24 or 26, coated on both sides, with one or two layers of asphalt, applied hot on which is compressed a layer of long-fibre asbestos, in gray or terra cotta colors. The sheets are either flat, corrugated or beaded, and are attached to the roof structure in the same manner as black or galvanized plates. Their weights range from 125 to 225 pounds per 100 square feet. The price of 22-gauge metal is \$11.50 per 100 pounds.

The asbestos will take and hold paint, if desired, but this is not necessary for the preservation of the material, one of its recommendations being that the cost of maintenance is practically eliminated. The material has been proved under the most severe use, as roofing and siding for acid factories, steel plants, coal-mine installations and fertilizer factories near the seacoast. About 400,000 square feet of this material were recently used in covering a modern zinc-smelting works. —Mining Journal.

## TWENTY-SEVEN CARLOADS OF PIPE COVERING FOR NEW YORK'S MUNICIPAL BUILDING.

By the end of the year the most costly municipal building in the world will be completed, and New York will have established another high water mark in the raising of colossal structures. So enormous is New York's new home for its municipal offices that the quantity of material used in its construction reaches stupendous figures.

The ordinary visitor, for instance, would not guess that one contract alone for covering the vast maze of pipes which thread this building involves 27 carloads of pipe covering material.

The various lines covered include steam, hot water ventilating, cold water and ice water for drinking purposes.

Particular attention is called to the group of pipes on the mezzanine floor, a picture of which is reproduced herewith. On account of the restricted space and the number of bends, the work of covering these pipes presented unusual difficulties which required the utmost skill and patience to overcome.

## MINNESOTA ALDERMAN INVENTS AN INCINERATOR.

G. A. Oveson, an alderman of International Falls, Minn., has applied for a patent on a "burnall" incinerator. For a long time the city struggled with its garbage problems, many suggestions were made and adopted, but without success. Other cities were visited and data gathered on the disposition made of their garbage. Many incinerators were investigated but all were too elaborate and expensive for cities of less than 10,000 people, so, as a last resort Alderman Oveson said he could build one which would do the business at comparatively small cost.

After some figuring he succeeded in building for this city a plant which does the business perfectly. It has now been in operation about twelve months and the press says that it burns up everything put into it, from a load of tin cans to a dead horse.

This plant, to which Mr. Oveson has given the name, "Burn All" Incinerator, is built of common brick and mortar, lined with fire clay, and can be built any size and in any kind of a location.

The expense of operation of this incinerator is about 16½ cents per ton on mixed garbage, figuring fuel at \$3.00 per cord, and one tender at \$2.00 per day, which is a small cost of operation per ton, according to the reports of what it costs to operate the large incinerators such as those at Minneapolis, Duluth and Winnipeg. Besides this there is no complicated machinery to get out of order; no grates to burn out. It is always ready or in operation, day or night.

Since the building of the garbage burner in this city the village of Baudette has had one installed and has given testimonials of its efficiency.



Minneapolis Branch:  
522 ANDRUS BUILDING  
Phone: T. S. Center 5112  
Northwestern: Nic. 5112

# K. F. LOTT & COMPANY

ESTABLISHED 1899

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Phones: T. S. 68  
N. W. Cedar 3208

### Northwestern Terra Cotta Company



Largest Manufacturers  
in the World of Highest  
Grades of

**Architectural  
Terra  
Cotta  
and  
Chimney Tops**

### ARCHITECTURAL DECORATING CO.



Porch Capitals --- In classic and modern designs,  
all standard sizes, and Waterproof material.

Composition Wood Carving  
for all natural wood finish  
Ornamental Plaster Staff.

Imitation Caen Stone. Decorative Cement Work

Dumb Waiters. Reliance Ball-Bearing Door Hangers. Ash Cranes.  
Mortar Colors, Insulite Waterproofing, Insulite Mastic Flooring, Side-  
walk Elevators. Hand Elevators. Safety Treads. "Bitucoat". Bitu  
Mortar Water-proofing Compound. Atlas Composition Flooring.  
Sidewalk Lights, Plain and Prism. □ □ □ □ □

M. A. THOMSON, Melrose 3681

### THOMSON-WILLIAMS CO.

CONTRACTORS IN Fama Stonewood, Marble and Tile, Con-  
crete and Elevators.

DEALERS IN Brick of All Kinds, Waterproofing and Building  
Specialties, Hyrib, Metal Lath, Corner Bead, Asphalt Roof-  
ing and Cabots; Creosote Stains Carried in Stock for  
Quick Shipment.

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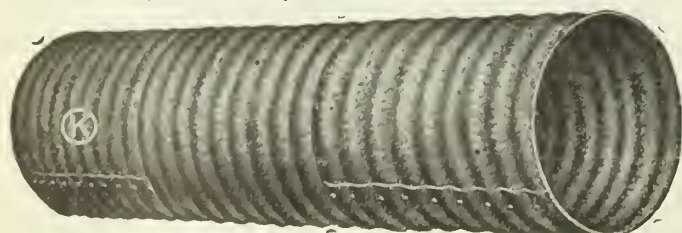
REPRESENTING

WAREHOUSE  
22½ W. 1st St.

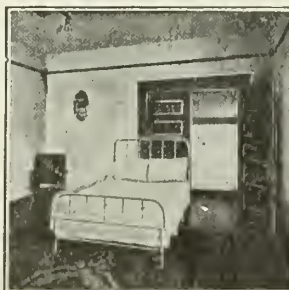
L. H. WILLIAMS, Lakeside 270

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American Enameled Brick Tile & Co.  
American Mason Safety Tread Co.  
Samuel Cabot.  
Cutler Mail Chute Co.  
Federal Cement Tile Co.  
David E. Kennedy.  
Minnesota Fama Stonewood Co.  
Stewart Iron Works Co.  
Thorp Fireproof Door Co.  
Trussed Concrete Steel Co.

### KLAUER'S "PERFECT" ROAD CULVERT



KLAUER MANUFACTURING CO. DUBUQUE, IOWA



### CONCEALED WALL BEDS

One Door Closet Bed  
and Bed  
Double Door Closet Bed  
Upright Rolling Bed  
Manufactured and sold by

**Northwestern Bedding Co.**  
St. Paul -:- -:- Minn.



## MUNICIPAL IMPROVEMENTS

### SMALL TOWN WATER WORKS SYSTEM.

The city of Brawley, Cal., has in operation a very inexpensive water works system. The water, which is obtained from an irrigation canal, is clarified in settling basins and then pumped to a very simply-constructed steel water tower by means of an oil engine.

In the spring of 1911 a depth of 2,000 feet was reached in a well put down by the hydraulic process, which started with an 8-inch casing and ended with a 4-inch casing. The only water struck was found to be brackish; no artesian flow was encountered, nor any strata that would have made pumping feasible.

The plan finally adopted was as follows: Canal water was to be settled in two settling basins of 300,000 gallons capacity each, from which it was to be pumped into a 50,000-gallon steel tank, the bottom of which was 50 feet from the ground. The pumps were direct connected to the mains, and only the surplus over the consumption would flow into the tank. While it had been the intention to erect a larger tank and of greater height, it was found that funds were not sufficient for this purpose.

The system as now constructed covers about one-half square mile of area and comprises two settling basins, a pumping plant, an elevated steel tank and the distributing system. The settling basins, located three-quarters of a mile from the center of population, are 80x150 feet, 5 feet deep, with flat slopes. They are intended to be operated in alternation and cleaned by scraping after drying for several days in the sun. They are connected by a system of vitrified pipes with the pumping sumps. Water is settled for twenty-four hours before being used. Their cost was approximately \$1,500.

The pumping plant consists of two units, one being a 20-horsepower distillate engine belted to a No. 4 centrifugal pump of the United Iron Works of Oakland, with a capacity of 500 gallons per minute, 75-foot head; the second unit, a 40-horsepower Westinghouse electric motor, direct connected to a 2-step, 4-inch centrifugal pump with a capacity of 500 gallons per minute against 160-foot head, sufficient for two fire streams. The first unit is used for the pumping of domestic supply, the second unit as a fire pump, pumping directly into the mains with the tank shut off. In order to increase the fire pressure, an arrangement has been provided whereby pump No. 1 may discharge into pump No. 2, thus delivering a combined theoretical head of approximately 230 feet. This pressure was utilized for testing the distributing system. The general arrangement and operation of the fire pump were made as simple as possible, so as to enable members of the volunteer fire department to operate the pump in the absence of the mechanic.

The cost of machinery was \$4,150. This amount may appear high, but it is to be considered that the whole water works system was let on one contract, and the figures at which the contractor was paid for various items may not in every instance represent cost plus an equal percentage of profit.

The pump house is a substantial timber building with galvanized sheet iron walls and roofing. The roof trusses were designed for being used in mounting and dismounting machinery. The building is well ventilated, screened and painted, and was let for the sum of \$1,889.

The steel tower and tank are of the hemispherical bottom type, using a 4-post tower, which style of structure is now being used almost exclusively for water storage purposes. This tower and tank were built in accordance with the standard plans and specifications of the Des Moines Bridge & Iron Co. The capacity of the tank is 50,000 gallons, the diameter being 18 feet and the height of the cylinder 24 feet 4 inches. The tank shell is made of ¼-inch plates throughout, except the lower ring of cylinder, which is 5-16-in. The supporting tower is 50 feet to balcony line and consists of four columns, being in two sections. The columns are made of 10-inch, 15-pound channels, latticed, and the struts are made of four angles 2½x2¼-inch. The bracing rods are 1-inch rounds throughout. On account of variations in temperature existing at Brawley, special provision was made to take care of the difference in expansion and contraction of the riser pipe and the water tower columns. The cost of the tower was approximately \$3,900 complete, including foundations. This cost is considerably higher than usual, on account of the very high cost of foundation materials, and transportation charges.—Fire and Water.

### HARDWOOD FLOORING AND THE FLOOR LAYER.

By W. L. Claffey.

The hardwood floor as a rule is laid by a profession commonly known as "floor layers," who specialize in the laying of hardwood floors, which comprises oak, maple and beech flooring.

These floor layers may be divided into two classes—the good and the bad. The expert floor layer obtains his reputation by the high class and perfect work that he turns out. It is practically his only asset in the game. Many large and prosperous floor-laying concerns reach their prosperous condition due chiefly to conscientious workmanship in their earlier days. The floor layer that is careless or ignorant in this line of work will never succeed.

Owners, architects and contractors now-a-days know the value of first-class work when it pertains to hardwood flooring. Even after the floor is finished, the appearance at some time sooner or later, if improperly laid, will develop the result of bad workmanship.

The floor layer that makes good is invariably the one that knows the proper method of laying floors that will always stay right. A good floor layer does not rely upon the contractor for all his business. In fact the greater share of his work is obtained through satisfied owners.

One expert floor layer that I know makes a specialty of canvassing among very fine old homes that were erected during the days when only soft pine floors were to be had. Usually ¾-inch thickness oak flooring is used for old homes, laid directly over the old pine floors. This expert in a very few minutes, after ascertaining the square feet of space to be recovered, will tell the cost, including the finishing.

While on this subject, it might be well to dwell upon some actual cases that the writer was called upon to investigate, which are quite pertinent.

In Detroit about a year ago, 2,450 feet of oak flooring was laid by an incompetent floor layer, parallel with the sub-floor. The sub-floor in the course of ten days started to contract, with the result that it made crevices in the floor about every six inches which was the exact width of the sub-floor. The owner made the complaint to the dealer, and I was called upon to look into the case. A glance at the floor immediately told me that the flooring was laid parallel to the sub-floor, which I proved by going into the cellar and looking at the direction in which the sub-floor was laid. The floor layer was called upon to explain why he had laid the oak flooring over the sub-flooring in this fashion. He had no good excuse to offer other than he thought it was the proper way. It brought out the fact that he was a novice in floor laying. Every bit of this oak flooring had to be taken up and replaced by new oak flooring and of course this time it was laid properly at right angles to the sub-floor.

Another case in Kansas City a short time ago; 2,000 feet of oak flooring was laid in a very fine residence immediately after being delivered from the retail yard. At the retail yard it was given improper housing, where it absorbed considerable moisture, resulting in many pieces swelling to the extent of 1-16 inch from the original manufacture. The period was during the winter season. The result was that unsightly crevices appeared very numerous after the house was heated. The architect in this case placed the blame upon the retailer and the floor layer. He contended that during the winter season hardwood flooring, especially oak, should be kept in a very dry and warm place for at least ten days or two weeks prior to the time of laying. This floor also had to be ripped up and replaced by new stock at a big expense, which was borne by the dealer and the floor layer. It might be well to say that they tried to place the blame upon the manufacturer but after careful investigation, revealed the aforesaid conditions.

At Ithica, N. Y., a few years ago, an 8-inch brick wall was bulged out to the extent of 3 inches and after investigation it was found it was done by the flooring, which was oak, being badly abused by too much water being used and left on in scrubbing the floor, which caused the swelling. Usually in a case of this kind, the floor will bulge up in the middle of the room, but it was found in this particular case that nails were generously used through to the oak sub-floor.

In another case in St. Louis where the flooring showed crevices throughout the floor, revealed the fact that the sub-floor was green stock and the carpenters left no space whatever for contraction. A few months after the flooring was laid these boards contracted anywhere from ¼ inch to ¾ inch, and while the flooring was laid diagonally, it made very bad crevices.

Article after article has been written in the trade journals upon the subjects of proper laying, nailing, finishing, etc., so do not believe it necessary at this time to dwell upon these subjects.

Booklets have been printed at enormous expense by the hardwood flooring manufacturers that can be had free for



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the asking. Some of their ads. appear in this magazine, especially the Oak Flooring Bureau, 899 Hammond building, Detroit, Mich., that publish a beautiful and instructive booklet on all the features of laying and finishing that should be in the hands of every floor layer or carpenter.

A first-class hardwood flooring job does not only mean the proper laying process, the right kind of nails, scraping, etc., but it means that the floor layer should exercise some judgment in keeping discolored pieces and other bad appearing pieces from prominent places in the room. Very often when entering a room you see a bad looking piece that is not covered by the rug, which should have been placed in some obscure corner or closet. The most successful floor layers employ an assistant to pick out bad looking strips and see that they are not laid in prominent places. A floor layer should have a thorough knowledge of the different kinds of hardwood flooring before entering into this field.

In oak flooring there are five grades: Clear, sap clear, select No. 1 common and factory. Each grade has its uses.

It is not necessary that every floor layer be an expert. Any ordinary carpenter with good common sense, after reading booklets as published by the manufacturers of hardwood flooring, can enter upon this line of work and make a success of it.

## PLUMBING, HEATING, AND VENTILATING

B. J. Hett has opened a plumbing establishment at 1004 5th st., Wausau, Wis.

Halstead-Maples Hardware Co., Sturgeon Bay, Wis., announce a plumbing department with Remillard Bros. in charge.

Frederick Beier and Henry Olson have started a plumbing and heating business at Carrington, N. D.

A. H. Mertens, Staples, Minn., is in new quarters, Brown block, with his brother, Albert, as partner.

Philip H. McGraw, Mankato, Minn., plumbing, hot water and steam heating, has moved to 215-217-219 south 2d, having bought the building formerly occupied by the Mankato Automobile Co. The garage will be rented to other parties.

The Sanitary Plumbing & Heating Co. of Virginia, Minn., has opened a retail store in the Hamm block. The company recently incorporated and the officers are. President, Andrew Grande; vice president, E. L. Blackwell; treasurer, Andrew Skumautz; secretary, E. G. Stevenson.

F. W. Schutt of Fairmont, Minn., who recently went to Minneapolis, has entered into a contract to travel for the D. W. Gilman Plumbing & Heating Co. His territory will include Southern Minnesota, Northern Iowa, and a portion of South Dakota. Harold Lathan will hereafter have charge of the business in Fairmont.

### PLANS AT BUILDERS' EXCHANGE, MINNEAPOLIS.

Plans on file Feb. 28, Builders' Exchange, Minneapolis:

Union hospital, New Ulm, Minn., bids open March 2; mechanical equipment, Union hospital, New Ulm, bids open March 2; school, Minot, N. D., bids open March 2; bank and business block, Elbow Lake, bids open March 2; school, Glenfield, N. D., bids open March 3; public school, Toledo, Ohio, bids open March 3; store and office building, Wahpeton, N. D., bids open March 4; First State Bank, Hoven, S. D., bids open March 7; postoffice, Williston, N. D., bids open March 9; high school, Des Moines, Iowa, bids open March 11; high school, St. John, N. D., bids open March 14; K. of C. building, Wells, Minn., bids open March 16; municipal building, Ellendale, N. D., bids open March 17; theater, Sioux City, Iowa, bids open March 17; church, Aberdeen, S. D., bids open March 20; church, Delano, Minn., bids open March 21; restaurant, Roundup, Mont.; church, Franklin township, Minn.

Bids in: Remodeling bank, Neillsville, Wis.; church, Fargo, N. D.; school, Mount Pleasant township, N. D.; school, Fergus Falls, Minn.; school, River Falls, Wis.; mechanical equipment, River Falls, Wis.; school, Hesper, N. D.

Contracts awarded: Church, Sioux Falls, S. D., Sioux Falls Construction Co.; cottage, Faribault, Minn., Kingsley & Payant, Faribault; mechanical equipment, cottage, Faribault, plumbing, Worthingham & Co.; heating, P. Gallagher; service building, Elliott hospital, Minneapolis, Libby & Nelson (low); mechanical equipment, Elliott hospital, heating and plumbing, Bjorkman Bros. (low).

## RECENT LEGAL DECISIONS

### MARSHALL COUNTY, MINN.—DAMAGES.

O. J. Dahl, as father of Steinar Dahl, a minor, respondent, vs. Valley Dredging Co., appellant.

Syllabus: First—It is the general rule that a trespasser takes his chances and must look out for himself, and that no duty rests upon the owner so to care for his property that a wrongful intermeddler shall not be exposed to danger.

Second—It is the duty of one who invites others to use his property to exercise ordinary care to keep it in such condition that they may do so with reasonable safety.

Third—The keeping of dangerous and attractive machinery where children may be expected to come to play, exposes them to a temptation which, as to those who lack sufficient mental capacity to be conscious of trespassers, is deemed equivalent to an implied invitation to play with it, and imposes a duty to use reasonable care to protect them from injury; but this rule applies only as to dangerous machinery and appliance naturally attractive to children.

Fourth—Where articles in such common use as gasoline, naphtha and kerosene are kept in a proper receptacle, at a place where it is proper for them to be, and where there is no reason to anticipate that they will be meddled with, the mere failure so to guard them that trespassing children cannot get possession of them does not, in itself, constitute actionable negligence under either the doctrine of the "turn-table cases," or the rule applying to explosives.

Order reversed and judgment for defendant.

—Taylor, C.

### RAMSEY COUNTY, MINN.—NEGLIGENCE RULE.

Charles Koury, respondent, vs. Chicago, Great Western Railway Co., et. al., defendants; Hoy & Elzy Co., appellant; Chicago, Great Western Railway Co., et. al., respondents.

Syllabus—A finding of negligence which rests wholly upon speculation and conjecture cannot be sustained. In this case there is no evidence tending to show what caused the happening of the accident and it comes within the above rule.

The order denying appellant's motion for a new trial is reversed and a new trial granted. The other orders appealed from are affirmed.

—Taylor, C.

### THE LATEST IOWA LIEN DECISION.

The latest lien decision in Iowa is the case of Empire State Surety Co. vs. Des Moines. This case involved claims against a surety company for materials furnished in the construction of a bridge, the surety company being in a position ordinarily occupied by an owner. A hardware company filed a statement claiming a lien for materials and supplies furnished to the contract, which consisted of lanterns, sledges, hammers, handles, chisels, axes, bolts, washers, etc., used by the contractor in carrying on his work, but not actually used in the completed bridge or in the falsework. A lumber company furnished lumber which was used in the construction of the bridge or went into the falsework. Our court held that there is a distinction between material which went into the completed bridge or into the false-work which was erected in the construction of such bridge, and destroyed on its completion and the materials and supplies which became a part of the machinery and equipment used by the contractor in the construction of the bridge. The supreme court further said that the material furnished and consumed in prosecuting the work is included, such as powder for blasting and lumber employed in constructing falsework or scaffold machinery, tools and equipment constituting the plant material furnished for additions to and repair thereof are included. This decision is in line with the decisions in other states, where they have upheld the liens for lumber furnished for concrete construction. Until the precise point is decided in Iowa, it is believed by Frank C. Byers, Cedar Rapids, that lumber furnished for forms the lumberman is entitled to a mechanic's lien if the material is practically consumed or rendered valueless by such use.



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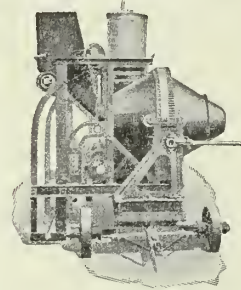
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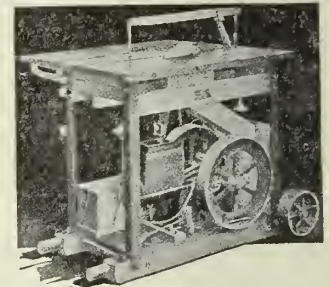
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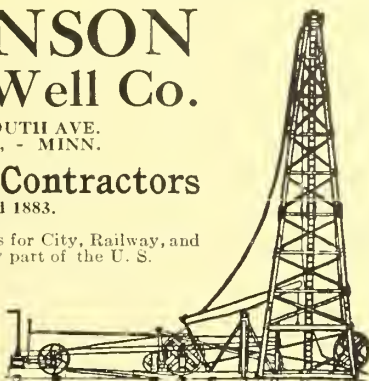
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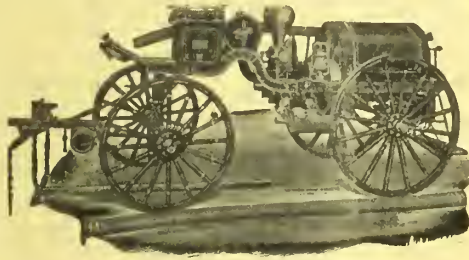
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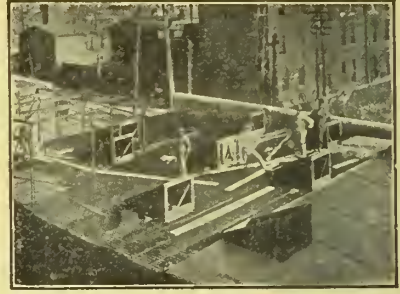
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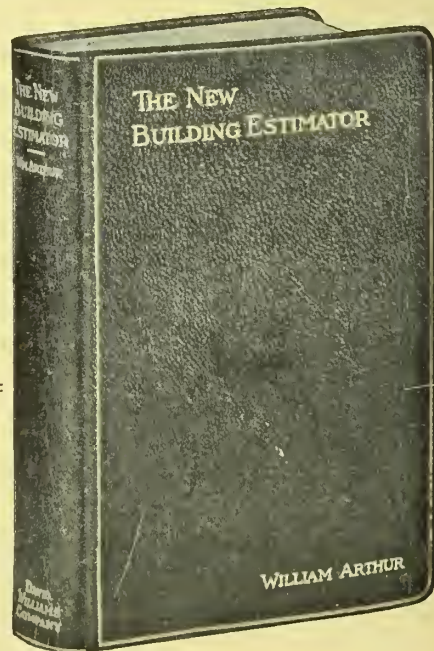
MINNEAPOLIS, - - - MINNESOTA

## ARCHITECTS

throughout the Northwest are requested to send us their correct name and street address. We ask this with the view of correcting and enlarging our architects' directory.

New architects, and those who have changed address, especially invited to respond, so that the new directory may be complete and reliable.

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A Weekly Journal of Construction, Engineering and Architectural News Founded by Harold C. Chapin

Volume XLVII.

Minneapolis, Minn., March 14, 1914.

Number 15

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### OFFICES.

Minneapolis, Minn.—912 Lumber Exchange.  
Tel. N. W. Main 3902.  
St. Paul, Minn.—404 Scandinavian-American Bank Building. Tel. Cedar 1683.

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You are invited to send news and comments along lines of your business to Minneapolis office not later than Thursday.

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### ARCHITECTURAL MODELING.

K. F. Lott & Co..Mpls. and St. Paul, Minn.

### ARCHITECTS' SUPPLIES.

Minneapolis Blue Prtg. Co....Mpls., Minn.  
Rogers & Co.....Minneapolis, Minn.

### ASBESTOS AND MAGNESIA PRODUCTS.

H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
Krieger-Jamar Co.....Duluth, Minn.

### ARTESIAN WELLS.

J. F. McCarthy.....Minneapolis, Minn.  
S. Swenson Artesian Well Co.....  
..Minneapolis, Minn.

### BANKS.

Northwestern National Bk....Mpls., Minn.

### BANK AND STORE FIXTURES.

Flour City Ornamental Iron Works.....  
..Minneapolis, Minn.  
A. Moorman & Co.....St. Paul, Minn.  
Northwestern Fixture & Cabinet Co.....  
..Minneapolis, Minn.

### BOILERS.

Andrews Heating Co....Minneapolis, Minn.  
Associate Mfrs. Supply Co....Mpls., Minn.  
Central Supply Co.....Minneapolis, Minn.  
Crane & Ordway Co.....St. Paul, Minn.  
Hasey Heating Co.....Minneapolis, Minn.  
McDonnell Boiler & Iron Works.....  
..Des Moines, Iowa

### BONDS—SURETY.

Hood & Penney Co.....Minneapolis, Minn.  
Wm. B. Joyce & Co....Mpls.-St. Paul, Minn.  
Fidelity & Deposit Co..Mpls.-St. Paul, Minn.

### BRASS GOODS.

Central Supply Co.....Minneapolis, Minn.  
National Mfg. & Supply Co.....Mpls., Minn.

### BRICK AND TILE.

American Brick & Tile Co..Mason City, Ia.  
Arnegard, Ole.....Hillsboro, N. D.  
Barber Asphalt Paving Co..Des Moines, Ia.  
Belt Line Brick Co.....Minneapolis, Minn.  
Boukind-Carlson Brick Co.Crookston, Minn.  
Chaska Brick & Tile Co.....St. Paul, Minn.  
Crookston Brk. & Tile Co.Crookston, Minn.  
Dickinson Brick Co.....Dickinson, N. D.  
Flint Brick Co.....Des Moines, Ia.  
Hebron Fire & Pressed Brick Co.....  
..Hebron, N. D.  
Hydraulic Press Brk. Co.Minneapolis, Minn.  
Johnson, Jackson & Corning Co.....  
..Minneapolis and St. Paul, Minn.  
Mason City Brick & Tile Co.Mason City, Ia.  
National Fireproofing Co.....  
..Minneapolis, Minn., and Chicago, Ill.  
Northwestern Fireproofing Co..Mpls., Minn.  
A. C. Ochs Brick & Tile Co.....  
..Springfield, Minn.  
Red River Valley Brick Corporation.....  
..Grand Forks, N. D.  
Shakopee Cement Lime Co..St. Paul, Minn.  
Sioux City Brick & Tile Works.....  
..Sioux City, Ia.  
Standard Salt & Cement Co..Duluth, Minn.  
St. Paul Lime & Cement Co..St. Paul, Minn.  
Twin City Brick Co..St. Paul-Mpls., Minn.

### BRIDGES.

American Bridge Co....Minneapolis, Minn.  
Corrugated Bar Co.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co..Mpls., Minn.  
N. W. Concrete Steel Co.Minneapolis, Minn.  
St. Paul Foundry Co.....St. Paul, Minn.

### BUILDING MATERIAL.

Barber Asphalt Paving Co..Des Moines, Ia.  
Baxter Sash & Door Co.....Duluth, Minn.  
N. B. Cagley & Co.....Minneapolis, Minn.  
Carr-Cullen Co.....Minneapolis, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co..Mpls. and St. Paul, Minn.  
Landers-Morrison-Christenson Co.....  
..Minneapolis, Minn.  
Osgood & Blodgett Mfg. Co..St. Paul, Minn.  
Shakopee Cement Lime Co..St. Paul, Minn.  
The Northwestern Lime Co..St. Paul, Minn.  
Standard Salt & Cement Co..Duluth, Minn.

### BUILDERS' SPECIALTIES.

Dunlop, Moore Co.....Duluth, Minn.  
Palne & Nixon Co.....Duluth, Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
Thomson-Williams Co.....Duluth, Minn.  
Waterloo Register Co.....Waterloo, Ia.

## The Buyer's Guide and Classified Directory of == Advertisers ==

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Atlas Portland Cement Co., New York,  
N. Y., Chicago, Ill., and Minneapolis, Minn.  
Carney's Cement Works....Mankato, Minn.  
Fowler & Pay....Mpls. and Mankato, Minn.  
Landers-Morrison-Christensen Co.....  
..Minneapolis, Minn.  
N. W. Lime Co..Mpls. and St. Paul, Minn.  
Shakopee Cement Lime Co..St. Paul, Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
Speakes Lime & Cement Co..Superior, Wis.  
St. Paul Lime & Cement Co..St. Paul, Minn.

### CELLS, STEEL.

Avery Steel & Iron Co..Minneapolis, Minn.  
Diebold Safe & Lock Co....St. Paul, Minn.  
Minneapolis Steel & Mach. Co..Mpls., Minn.

### CEILINGS, STEEL.

Canton Steel Ceiling Co..Minneapolis, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### CHAIRS, OPERA.

Northern Theatre Supply Co..Mpls., Minn.

### COAL, CHUTES.

Enterprise Iron Works....Albert Lea, Minn.  
Gardner Hardware Co..Minneapolis, Minn.  
Majestic Furnace & Fdy. Co..Mpls., Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
Waterloo Register Co.....Waterloo, Ia.

### COLD STORAGE PLANTS.

Chas. A. Berger.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.

### COLUMN CLAMPS.

O. F. Symons & Co.....Minneapolis, Minn.

### CONCRETE CONSTRUCTION.

Corrugated Bar Co.....St. Paul, Minn.  
C. A. P. Turner.....Minneapolis, Minn.

### CONCRETE MACHINERY.

Eureka Machine Co.....Lansing, Mich.  
G. E. Ingersoll & Co.....St. Paul, Minn.  
Koehring Machine Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
Standard Salt & Cement Co..Duluth, Minn.  
Jaeger Machine Co.....Columbus, Ohio  
Raymer Hardware Co.....St. Paul, Minn.  
Lansing Co.....Lansing, Mich.  
Northwestern Iron & Steel Works.....  
..Eau Claire, Wis.

### CONCRETE REINFORCING BARS.

Inland Steel Co.....St. Paul, Minn.  
Corrugated Bar Co.....St. Paul, Minn.  
N. W. Concrete Steel Co.Minneapolis, Minn.  
Minneapolis Steel & Mach. Co..Mpls., Minn.

### CORNICES.

Griffin & Boehme.....St. Paul, Minn.  
F. V. Haverland.....Minneapolis, Minn.  
Minnesota Roofing & Cornice Works.....  
..St. Paul, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.  
St. Paul Roofing, Cornice & Ornament Co.  
.....St. Paul, Minn.

### CORRUGATED IRON, ETC.

Corrugated Bar Co.....St. Paul, Minn.

### CONCRETE REINFORCING.

Inland Steel Co.....St. Paul, Minn.  
N. W. Concrete Steel Co.Minneapolis, Minn.

### CONTRACTORS.

N. B. Cagley & Co.....Minneapolis, Minn.

### CONTRACTORS' SUPPLIES AND MACHINERY.

Decker Hardware Co.....St. Paul, Minn.  
O. F. Symons & Co.....Minneapolis, Minn.  
Victor H. Leebby.....Fargo, N. D.

### CULVERTS.

Blesanz Stone Co.....Winona, Minn.  
Klauer Mfg. Co.....Dubuque, Ia.  
Minneapolis Steel & Mach. Co..Mpls., Minn.

### CRUSHED STONE.

Fowler & Pay.....Mankato, Minn.  
Kettle River Co.....Minneapolis, Minn.  
Klauer Mfg. Co.....Dubuque, Ia.  
Mantorville Stone Co.....Mantorville, Minn.  
New Ulm Stone Co.....New Ulm, Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
Widell Co.....Mankato, Minn.

### CREOSOTING.

Republic Creosoting Co., A. E. Larkin  
.....Minneapolis, Minn.

### DEADENING MATERIAL.

H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co.....St. Paul, Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
Union Fibre Co.....Winona, Minn.

### DECORATIONS.

Odin J. Oyen.....La Crosse, Wis.

### DITCHING MACHINES.

Dix Machine Co.....Stillwater, Minn.

### ELECTRICAL ENGINEERING.

Minneapolis Electric Equipment Co.....  
..Minneapolis, Minn.  
Northern Electrical Co..Minneapolis, Minn.

## RATES

For three lines in directory, giving name, address and goods handled, \$25 for 1 year, 52 times.

### SAMPLE AD

Great Northern Brick Company  
Pressed Brick and Drain Tile  
Minneapolis, - - - Minn.

### ELECTRIC MOTORS AND SUPPLIES

H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
Minneapolis Electric Equipment Co.....  
..Minneapolis, Minn.  
Sterling Electric Co.....Minneapolis, Minn.

### ELECTRIC SPECIALTIES

Minneapolis Electric Equipment Co.....  
..Minneapolis, Minn.

### ELEVATORS AND ENCLOSURES.

Kimball Bros. Co.....Council Bluffs, Ia.  
Gust Lagerquist.....Minneapolis, Minn.  
Lee & Hoff Mfg. Co.....St. Paul, Minn.

### ELEVATOR CABS.

N. W. Fixture & Cabinet Co..Mpls., Minn.

### ENGINEERS—CONTRACTORS.

Power Engineering Co..Minneapolis, Minn.

### ENGINEERS.

Oscar Claussen Engineering Co.....  
..St. Paul, Minn.  
Charles L. Pillsbury.....Minneapolis, Minn.  
L. P. Wolf.....St. Paul, Minn.  
M. B. Stone.....Minneapolis, Minn.  
W. P. Cowles.....Minneapolis, Minn.

### FIRE ESCAPES.

Des Moines Structural Steel Works.....  
..Des Moines, Ia.  
Davenport Mach. & Fdy. Co..Davenport, Ia.  
Minneapolis Steel & Mach. Co..Mpls., Minn.

### FIREPROOF DOORS.

Thorp Fireproof Door Co..Minneapolis, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### FLUE LINING.

Northwestern Lime Co.....St. Paul, Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
St. Paul Lime & Cement Co..St. Paul, Minn.

### FIRE PROTECTION APPARATUS.

Waterous Engine Works Co..St. Paul, Minn.  
H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.

### FIREPROOFING DOORS AND SHUTTERS.

Selden Roofing & Manufacturing Co.....  
..Minneapolis, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### FLOORING.

American Torgoment Flooring Co.....  
..Minneapolis and (Midway) St. Paul, Minn.  
Fama Stonewood Co.....St. Paul, Minn.  
H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co..Mpls. and St. Paul, Minn.  
Osgood & Blodgett Mfg. Co..St. Paul, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.  
I. Stephenson Co.....Wells, Mich.  
Thomson-Williams Co.....Duluth, Minn.

### FURRING.

Corrugated Bar Co.....St. Paul, Minn.

### GAS AND ELECTRICAL FIXTURES.

Herber Chandelier Co..Minneapolis, Minn.  
Mpls. Electric Equipment Co..Mpls., Minn.  
Minneapolis Gas Fixture Co..Mpls., Minn.  
Sterling Electric Co.....Minneapolis, Minn.

### GLASS.

American Luxfer Prism Co....Chicago, Ill.  
Minnesota Art Glass Co.....St. Paul, Minn.  
Pittsburgh Plate Glass Co.....  
..Minneapolis and St. Paul, Minn.

### GRANITE.

Rockville Granite Co.....Rockville, Minn.

### GRAVITY CARRIER.

Minnesota Manufacturers' Association....  
..North St. Paul, Minn.

### HARDWARE TRIMMINGS.

Decker Hardware Co.....St. Paul, Minn.  
Gardner Hardware Co..Minneapolis, Minn.  
Raymer Hardware Co.....St. Paul, Minn.  
Waterous Engine Co.....St. Paul, Minn.  
Warner Hardware Co.....Minneapolis, Minn.

### HEAT REGULATORS.

Andrews Heating Co.....Minneapolis, Minn.

### HEATING AND VENTILATING.

Andrews Heating Co.....Minneapolis, Minn.  
Associate Mfrs. Supply Co.....  
..Minneapolis, Minn.  
Hasey Heating Co.....Minneapolis, Minn.  
H. Kelly & Co.....Minneapolis, Minn.  
National Mfg. & Supply Co....Mpls., Minn.  
Charles Wilkins & Co..Minneapolis, Minn.

### HOSE.

Gardner Hardware Co..Minneapolis, Minn.  
W. K. Morison & Co.....Minneapolis, Minn.

### HOTELS.

Radisson Hotel.....Minneapolis, Minn.



## NOTE

For street address of firms mentioned here, consult their advertisements, which can readily be found by referring to the alphabetical list on page three.

### INSULATING MATERIAL.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co.....St. Paul, Minn.  
Union Fibre Co.....Winona, Minn.

### INSURANCE.

Fidelity & Deposit Co.....Minneapolis and St. Paul, Minn.  
Fred L. Gray Co.....Minneapolis, Minn.  
Hood & Penney Co.....Minneapolis, Minn.  
W. B. Joyce Co., Mpls. and St. Paul, Minn.  
Minneapolis Insurance Agency.....Mpls., Minn.

### IRON AND STEEL WORK.

Avery Steel & Iron Co.....Minneapolis, Minn.  
Clinton Bridge Works.....Clinton, Ia.  
Crown Iron Works.....Minneapolis, Minn.  
Davenport Machine & Foundry Co.....Davenport, Ia.  
Des Moines Structural Steel Works.....Des Moines, Ia.  
Inland Steel Co.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
N. W. Concrete Steel Co., Minneapolis, Minn.  
Oberg & Stainer.....Minneapolis, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.  
St. Paul Foundry Co.....St. Paul, Minn.  
E. J. Voggenthaler Co.....Dubuque, Ia.  
Youngstown Iron & Steel Co.....Minneapolis, Minn.

### JOIST HANGERS.

Avery Steel & Iron Co.....Minneapolis, Minn.  
Davenport Machine & Foundry Co.....Davenport, Ia.  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
Northwestern Concrete Steel Co.....

### LANDSCAPE ARCHITECTS.

B. Terrell Hoyt.....Minneapolis, Minn.

### LIME.

Fowler & Pay.....Mpls. and Mankato, Minn.  
Landers-Morrison-Christenson Co.....Minneapolis, Minn.  
Gust Lillyblad.....Red Wing, Minn.  
Shakopee Cement Lime Manufacturing Co.....St. Paul, Minn.  
Speakes Lime & Cement Co., Superior, Wis.  
St. Paul Lime & Cement Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
The Northwestern Lime Co., St. Paul, Minn.

### MANTELS—GRATES.

Drake Marble & Tile Co.....Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
N. W. Marble & Tile Co., Minneapolis, Minn.  
Twin City Tile & Marble Co., Mpls., Minn.

### MARBLE, TILING, MOSAIC.

Drake Marble & Tile Co.....Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
N. W. Marble & Tile Co., Minneapolis, Minn.  
Thomson-Williams Co.....Duluth, Minn.  
Twin City Tile & Marble Co., Mpls., Minn.

### METAL SHINGLES.

Milwaukee Corrugating Co., Milwaukee, Wis.

### METAL AND WIRE LATH.

Corrugated Bar Co.....St. Paul, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.  
Johnson, Jackson & Corning Co.....Minneapolis and St. Paul, Minn.  
Northwestern Lime Co.....St. Paul, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.  
Thomson-Williams Co.....Duluth, Minn.

### MILLWORK.

Baxter Sash & Door Co.....Duluth, Minn.  
Osgood-Blodgett Mfg. Co.....St. Paul, Minn.

### MUNICIPAL CASTINGS.

Davenport Mach. & Fdy. Co., Davenport, Ia.

### OFFICE FURNITURE.

Farnham Printing & Sta. Co., Mpls., Minn.

### ORNAMENTAL IRON AND WIRE.

Builders Iron Works Co.....Minneapolis and St. Paul, Minn.  
Davenport Machine & Foundry Co.....Davenport, Ia.  
Demueles Bros.....Minneapolis, Minn.  
Flour City Ornamental Iron Works.....Minneapolis, Minn.  
Midway Ornamental Iron Works.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
St. Paul Foundry Co.....St. Paul, Minn.

### PAINTS, FILLERS, ETC.

Gardner Hardware Co.....Minneapolis, Minn.  
Gardner Mineral Paint Works.....Milwaukee, Wis.

## The Buyer's Guide and Classified Directory of Advertisers

### PACKINGS AND HOSE.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

### PAVEMENT.

Barber Asphalt Paving Co., Des Moines, Ia.  
Barrett Mfg. Co.....New York, N. Y.

### PICTURE MACHINES.

Northern Theatre Supply Co., Mpls., Minn.

### PIPE AND BOILER COVERING.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

### PLASTER—WALL.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
Plymouth Gypsum Co.....Fort Dodge, Ia.  
Shakopee Cement Lime Co., St. Paul, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

### PLASTERING—ORNAMENTAL.

Brioschi-Minuti Co.....St. Paul, Minn.

### PLASTIC ORNAMENTS.

Brioschi-Minuti Co.....St. Paul, Minn.  
K. F. Lott & Co., Mpls. and St. Paul, Minn.

### PLUMBING AND GAS FITTING

Charles Wilkins & Co., Minneapolis, Minn.

### PRINTING.

Farnham Printing Co., Minneapolis, Minn.

### PRISMS.

American Luxfer Prism Co., Chicago, Ill.

### PLUMBING AND HEATING JOBBERS.

#### POWER PLANTS.

Associate Mfrs. Supply Co., Mpls., Minn.  
Central Supply Co., Minneapolis, Minn.  
National Mfg. & Supply Co., Mpls., Minn.

#### RADIATORS.

Associate Mfrs. Supply Co., Mpls., Minn.  
Central Supply Co., Minneapolis, Minn.

#### REVOLVING DOORS.

Van Kannel Revolving Door Co., St. Paul, Minn.

#### ROOFING GRAVEL AND ASPHALT.

Griffin & Boehme.....St. Paul, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
Krieger-Jamar Co.....Duluth, Minn.  
Minnesota Roofing & Cornice Works.....St. Paul, Minn.  
Northwestern Lime Co.....St. Paul, Minn.  
Scribner-Libby Co.....St. Paul, Minn.  
Selden Roofing & Manufacturing Co.....Minneapolis, Minn.  
Thomson-Williams Co.....Duluth, Minn.  
R. S. Wishart & Co., Minneapolis, Minn.

#### ROOFING—METAL.

Badger Steel Roofing & Corrugating Co., La Crosse, Wis.  
Duluth Corrugating & Roofing Co., Duluth, Minn.  
Gardner Hardware Co., Minneapolis, Minn.  
La Crosse Steel Roofing & Corrugating Co., St. Paul, Minn.  
St. Paul Roofing, Cornice & Ornamental Co., St. Paul, Minn.  
R. S. Wishart & Co., Minneapolis, Minn.

#### ROOFING MATERIAL.

Barrett Mfg. Co., New York, N. Y.  
Corrugated Bar Co., St. Paul, Minn.  
John Leslie Paper Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
McClellan Paper Co., Minneapolis, Minn.

#### ROOFING AND SIDING—IRON AND STEEL.

Gardner Hardware Co., Minneapolis, Minn.  
Inland Steel Co., St. Paul, Minn.

#### RUBBER SHINGLES.

Standard Salt & Cement Co., Duluth, Minn.

#### RUST-RESISTING IRON SHEETS.

Inland Steel Co., St. Paul, Minn.

#### SAFES.

Diebold Safe & Lock Co., St. Paul, Minn.  
Heilig & Elliott Co., Minneapolis, Minn.  
Herring-Hall-Marvin Safe Co.

#### SAND AND GRAVEL.

Standard Salt & Cement Co., Duluth, Minn.

#### SEWER PIPE AND DRAIN TILE.

Ingalls Stone Co., Bedford, Ind.  
Iowa Sewer Pipe & Tile Co., Des Moines, Ia.  
Northwestern Lime Co., St. Paul, Minn.  
Plymouth Clay Products Co., Fort Dodge, Ia.  
Red Wing Sewer Pipe Co., Red Wing, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

## REMEMBER

Announcements on this page are read by architects, contractors, and the building trade generally, all over the Northwest and produce excellent results.

### SHEETS—IRON AND STEEL.

Gardner Hardware Co., Minneapolis, Minn.  
Inland Steel Co., St. Paul, Minn.

### SIDEWALK LIGHTS.

American Luxfer Prism Co., Chicago, Ill.  
K. F. Lott & Co., St. Paul and Minneapolis, Minn.

### SLATE BLACKBOARDS.

Twin City Tile & Marble Co., Minneapolis, Minn.

### SKYLIGHTS.

Krieger-Jamar Co., Duluth, Minn.  
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.  
R. S. Wishart & Co., Minneapolis, Minn.

### STEEL—BARS.

Inland Steel Co., St. Paul, Minn.  
Twin City Tile & Marble Co., Mpls., Minn.

### STONE.

Babcock & Wilcox.....Kasota, Minn.  
Biesanz Stone Co., Winona, Minn.  
Also Building Material, Gravel for Roofing, Sand and Gravel.  
Breen Stone Co., Kasota, Minn.  
Edw. Edinger Co., Cedar Rapids, Ia.  
Ingalls Stone Co., Bedford, Ind.  
Kettle River Co., Minneapolis, Minn.  
Duluth Cut Stone Co., Duluth, Minn.  
Mantorville Stone Co., Mantorville, Minn.  
New Ulm Stone Co., New Ulm, Minn.  
Pioneer Granite Co., St. Cloud, Minn.  
Sauk Rapids Granite Co., Sauk Rapids, Minn.  
Wm. Penn Stone Co., Minneapolis, Minn.  
The Widell Co., Mankato, Minn.

STRUCTURAL SECTIONS AND SHEETS.  
Inland Steel Co., St. Paul, Minn.

### TANKS—STEEL.

American Bridge Co., Minneapolis, Minn.  
Central Supply Co., Minneapolis, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.

### TELESCOPIC HOISTS.

Avery Supply Co., Minneapolis, Minn.

### TERRA COTTA.

Johnson, Jackson & Corning.....Minneapolis and St. Paul, Minn.  
K. F. Lott & Co., Minneapolis and St. Paul, Minn.  
Ranson, Birtram W., Minneapolis, Minn.

### VARNISHES.

Gardner Hardware Co., Minneapolis, Minn.  
North Star Varnish Co., Minneapolis, Minn.  
Twin City Varnish Co., St. Paul, Minn.

### VALVES.

Central Supply Co., Minneapolis, Minn.  
Crane Co., Minneapolis, Minn.  
Crane & Ordway Co., St. Paul, Minn.

### VAULTS.

Diebold Safe & Lock Co., St. Paul, Minn.  
Heilig & Elliott Co., Minneapolis, Minn.  
Herring-Hall-Marvin Safe Co.  
Also Vault Doors, Vault Furnishings and Filling Equipment.

### VENTILATING SYSTEMS.

Hackney Ventilating Co., Minneapolis, Minn.  
Charles Wilkins & Co., Minneapolis, Minn.

### WALL BEDS.

Northwestern Bedding Co., St. Paul, Minn.

### WATERPROOFING.

Gardner Hardware Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co., St. Paul, Minn.

### WATER TOWERS, STEEL.

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

WINDOW SCREENS—METAL FRAME.  
O. F. Symons & Co., Minneapolis, Minn.

### WINDOW SHADES—WASHABLE.

National Window Shade Co., Minneapolis, Minn.

### WIRE AND IRON WORKS.

Builders Iron Works.....Minneapolis and St. Paul, Minn.  
Demueles Bros.....Minneapolis, Minn.  
Midway Ornamental Iron Works.....St. Paul, Minn.

### WEATHER STRIPS.

Metal Weather Strip Co., St. Paul, Minn.  
O. F. Symons & Co., Minneapolis, Minn.

### WOODWORKING.

G. E. Ingersoll.....St. Paul, Minn.



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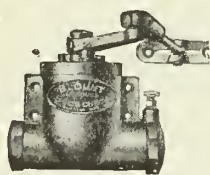
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(Cut on this line.)



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CHECKS**

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**A DISCOUNT OF 10% AND**  
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304-306 HENNEPIN AVENUE

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FORT DODGE, IOWA

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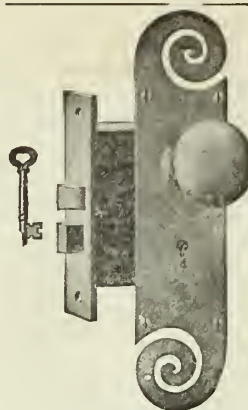
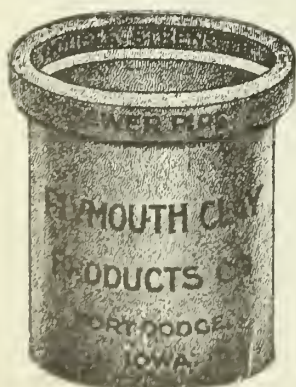
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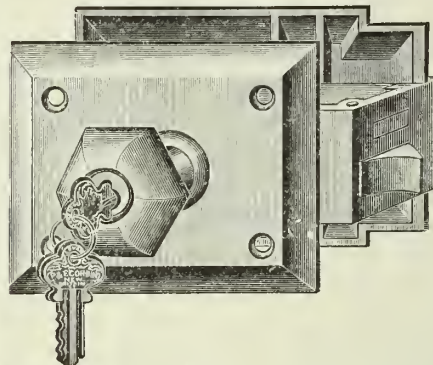
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hardware provides the  
distinction and worth  
that lies in artistic de-  
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Ask for Catalogs

**WARNER HARDWARE CO.**

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LOCKS**

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Specialty of fine  
Builders' Hard-  
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Estimates furnished promptly.

**ADAM DECKER HARDWARE COMPANY**

347-49 JACKSON STREET

ST. PAUL, MINN.

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# The IMPROVEMENT BULLETIN

OFFICIAL ORGAN OF THE MINNESOTA STATE FEDERATION OF BUILDERS EXCHANGES

VOLUME XLVII.

SATURDAY, MARCH 14, 1914

NUMBER 15

## EDITORIAL

O. L. COLBURN, Editor

### COMPENSATION MAKES HYPOCHONDRIACS.

One of the evils which may result from a system of Workmen's compensation is the danger that good workmen may be encouraged to become hypochondriacs. Imagination has a powerful influence over the body, and it is inevitable that a workman's imagination may be unduly stimulated if he knows that he will be paid a large part of his wages during illness. It is a fact that new ailments develop in manufacturing countries where systems of compensation are in operation. The chief of these is the acquired desire to remain an invalid after an accident or illness. In the majority of cases the unfortunates are absolved from a charge of duplicity. They believe that they are worse than they are. When this perverted imagination co-operates with the human disinclination to work, it goes a long way towards incapacitating men for long periods and making them believe that they should be compensated for every accident, however slight. In discussing this phase of the question the Monetary Times says:

"Germany has had about thirty years' experience of compulsory workmen's compensation insurance. Ontario is about to begin. At present, in Germany, there are some 14,000,000 people insured against sickness, 25,000,000 against accident and about 16,000,000 against old age and invalidism. Since the passing of the insurance laws some nine milliards of marks (\$2,250,000,000) have been expended in payments, with a regular annual average in recent years of 750,000,000 marks (\$1,850,000). The number of individuals to whom these payments are made amounts to about 100,000,000 and every year adds 8,000,000. These are remarkable figures."

### GREAT LAKES-MISSISSIPPI CANAL.

Interest in the project to dig a canal from Lake Superior to the Mississippi is increasing. A great deal of thought and energy is being devoted to the enterprise. Following the report of Frank Stacy who has spent nearly a year in preparing an exhaustive brief for presentation to congress, the canal commissions of Wisconsin and Minnesota held a meeting at the capitol, St. Paul, and took prompt action to overcome the adverse report of the United States engineers, which belittled the commercial value of the proposed canal. Representatives of the Civic and Commerce Associations of Minneapolis and St. Paul attended the meeting.

It was shown at the conference that the two states will work together for the waterway and this, with the array of benefits already revealed, and to be further demonstrated, gives the project a brighter outlook than it has ever had before.

Douglas Fiske represented the Minneapolis Civic and Commerce Association and J. H. Beek, the St. Paul Association of Commerce. They reported both bodies greatly interested in the canal, believing it will have great possibilities in giving the Twin Cities low freight rates. Since the interstate commerce commission's decision increasing the differential between the Twin Cities and the head of the lakes, the need of water communication for the Twin Cities has become greater.

Members of the commission say that the engineers failed to count in the water power which would be developed on the Brule river and the St. Croix by the canal. The commissions first will urge that the government proceed under the \$15,000 appropriation granted for the purpose, and make a more exhaustive investigation. Work has been halted since the hostile preliminary report.

The Minnesota commissioners present were Governor Eberhart, Judge Ira B. Mills of the state railroad and warehouse commission and E. V. Willard, state drainage engineer. The Wisconsin commissioners met at Hudson and organized before attending. They are Assemblyman John Chinnock of Hudson, Senator E. F. Ackley of Chippewa Falls, and Ed. L. Peet of Danbury. The St. Croix River Improvement Association was represented by G. H. Hazzard and Senator George H. Sullivan of Stillwater.

## Our Standing Offer

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If you have ordered goods or materials to the value of fifty dollars,—mentioning *The Improvement Bulletin* when you order,—we will give you a full year's subscription without cost. Just mention names and dates when you write us. If you haven't already done so, look over the advertisements in this issue. You will find reliable firms in every line advertising here. There is certainly fifty dollars worth of your building materials, supplies or machinery for this season, that you can purchase in this way and get the reward we offer. A year's subscription, you see, is as good as a five-dollar bill, or a ten per cent reduction on your purchase.

Address Advertising Department, *The Improvement Bulletin*.

### BRICK OUTLOOK IS PROMISING.

Reports from various points where brick is manufactured are in harmony.—all sold out; hoping for early spring to start making more. A review of the situation at St. Cloud says: "The brick manufacturers are wishing for an early spring. With a big amount of building in sight and the prospect of more new houses and business blocks to be put up in St. Cloud than ever before in a single season, they want to get at work turning out bricks by the millions. They had about enough on hand to supply C. F. Ladner for his big warehouse, and for the Hurtle garage, and also to give the contractors a reasonable supply for the early spring orders. These orders, which have been filled cleaned up the two big brick yards on the St. Augusta road, which is a new experience for them. Henry Hess will greatly increase his plant capacity this year with a new machine for 50,000 wire-cut daily."

As soon as the freezing nights of this spring are past and the frost is out of the ground the busy process of turning out millions of brick, in the Northwest, will begin.

### A COMPETITION FOR UNIVERSITY BUILDING PLANS.

Architect Myron Hunt, advisor to the regents of the University of Arizona, Tucson, in the proposed architectural competition for a new university building to cost \$150,000, announces that the competition will be an open one under the rules of the American Institute of Architects. No geographical lines will be drawn upon those eligible to compete. The program for the competition has been drawn, but the regents of the university are waiting to have some points regarding the Arizona law requiring competitions on public buildings cleared up before announcement is made.

### A PROSPECT OF 1915.

There are innumerable indications that the Northwest will experience this year a further general growth and development which will hardly be equalled, and not excelled by any previous year. And there are also indications that 1915 will be even greater in extent of activity and prosperity—probably one of the greatest years any section of this country has ever had.

Minnesota's advantages seem to have won a more lively appreciation than ever. The drouth southwest last summer turned many faces towards the rich soil, well watered, and the invigorating climate of the state. We hear of Minnesota towns which suddenly have taken on new life and have found themselves without houses enough for the new-comers. From the iron range news is brought to us that the Great Northern Railroad Co. alone is making preparations which will make 1915 a great year in business activity and building in that part of the state. Expiration of mineral land leases will result in making the Hill rail system a miner and manufacturer as well as carrier. It is expected that this will necessitate a very large amount of construction, including a steel plant at the head of the lakes. A contractor, who was on the range during the winter found the general condition decidedly lively and expectant, with a general conviction that 1914, with all its prosperity would be only an introduction to the big things of 1915.





ANOTHER \$1,000,000 HOTEL FOR MINNEAPOLIS, THE BLACKSTONE, TO FACE LORING PARK.  
Plans by Long, Lamoreaux & Long, Architects, Minneapolis.

A \$1,000,000 family hotel is to be erected at Willow st. and Yale place, and the promise is made that it will be the last word in hotel construction. The building will face Loring Park and will have a frontage of 157 feet on Willow st. and 100 on Yale place. It will be fourteen stories with a basement. Work will begin about April 1. The land has been obtained from C. H. Wheeler by Earl C. Fairbanks, representing Clarke & King, acting on behalf of C. R. Girton, builder and engineer. The hotel will contain 177 apartments, ranging in size from one room to six, with bath in every apartment. The first floor will contain a spacious lobby in Circassian walnut. The design will be Spanish renaissance. In the basement will be a large cafe and a billiard parlor. The basement will also include a garage, in which forty machines can be housed.

The top floor will be a ball room, which will be finished in elaborate design.

Mr. Girton, who is financing the project, says that the latest mechanical devices will be provided in the building. The structure will have two courts, so that every room will have outside windows. A special system of mechanical ventilation will be provided.

The hotel will have its own electric power plant, and a charging station for electric automobiles. A complete refrigerating

plant will be installed supplying iced water and refrigeration to every apartment, so that the tenants will not be obliged to maintain their own refrigerators. There will also be a garbage incinerator, and a special system of chutes, so that the tenants need not be dependent on city collection.

The apartments will be finished in quarter-sawed oak, mahogany, and birch, with decorations to suit the tenants. The dining room will have beamed ceilings and cornices. Every possible need of the tenant will be looked after, even to bookcases and fireplaces, which will be a part of every apartment.

The hotel will also have its own vacuum cleaning plant and an artesian well will supply pure water. Applications for leases have already been received by Clarke & King, who will manage the property.

The building will be fireproof and Mr. Girton declares that no expense will be spared to make the hotel the superior of anything west of New York city. "It is our aim to complete with and excel the best in Minneapolis," Mr. Girton said.

While the Blackstone is designed primarily as a family hotel, it will cater also to bachelor men and maids. The plans include forty-six rooms with bath.



# Fire Insurance and Brick and Tile Plants

By O. W. Follett, Des Moines, Iowa.

The subject, "The best way to secure lower insurance rates is to build better buildings," is so self evident that it hardly needs a formal paper to enlarge upon it. But in my eight years' experience in the insurance business field, I have found that the average insurer, when he is planning to build, never has a thought of what effect the arrangement of his building or the materials used, will have upon his insurance rate.

This is due to the fact that the average insurer does not know the technical requirements. I use the word **technical** advisedly. The insurer knows that wood burns more readily than brick, but he very often is not careful to protect openings between separate and distinct buildings by fire doors. Very often a solid brick wall between two buildings, one containing large values and the other containing the boiler and coal bin, will be provided with several windows that are unprotected. Experience has taught us that a great many fires start from heating plants or from boiler rooms. Therefore, if the room containing the boiler is shut off from the main building by a 12-inch wall which extends at least eighteen inches above the roof, the rate on the whole plant will be less, because the hazard of the boiler room will be reduced to a minimum. In other words, the boiler room could burn and the chances would be excellent for saving the main building.

Another deplorable thing is that the great majority of architects are not alive to the fact that they can very often save their client money by having him spend **more** money in the first place in making his buildings more nearly fireproof. For example, a certain man in this state built a new six-story bank at a cost of \$200,000.00. The building is of brick with reinforced steel and concrete floors. The openings in the rear are protected by wire glass set in metal sash with metal window frames. On the north side above the two-story brick exposures, the bank building has a court for light and air. The windows in this court are provided with metal glass, but to save a few hundred dollars on a \$200,000.00 building, the architect's plans call for wooden sash and wooden window frames, and they were put in. When the building was rated, of course a charge had to be made for the above defect, and it is safe to say that the bank's insurance, for the first five years after the building was erected, cost it enough more to have installed the metal sash and frames, and after that as long as the building stands the bank will be paying this extra charge, besides running a greater risk of having its floors damaged should a conflagration occur to the north of its building.

It is my purpose to present as clearly as I can, the insurance man's side of the case, and in the first place I want to say that the only way to reduce the insurance rate is to reduce the fire waste. The ordinary insurance company is a corporation whose stockholders are entitled to a fair rate of interest on the capital invested. If the stockholders do not make anything the company either fails or sells out. If risks are written at too low rates, it is bound to make the company fail. Therefore, insurers may get their insurance for less than it costs to carry the risk, but they will get this done only temporarily, for the company or companies who do it will be out of business. An insurance company is simply a distributor of the fire waste. The only way to reduce the fire **cost** is to reduce the fire waste, and the way to reduce the fire waste is to build better.

## BRICK AND TILE PLANT HAZARDS.

There are three hazards that must be guarded against in building brick and tile plants. First the system of drying the green stock; second, in burning or firing the same after being dried; and third, in the presence and use of mixed oils at the recompressing machine in plants where paving brick is made.

Of course the first two of these hazards are found more often in this state because we do not have very many paving brick plants. Where the green ware is dried in the main plant, or in any combustible structure, it should be done only with low pressure steam, and the steam pipes arranged and freed from possible contact with woodwork and other combustible material.

When the drying is accomplished by the use of excess or waste heat from the burning or firing kilns, it should be

carried on in tunnels of fireproof construction, separated from the main structure as far as practicable; proper ventilation of the tunnels should be secured through brick stacks or chimneys, and the doors to both the charging and discharging ends should be of fireproof construction. The structure containing the suction or blowing fan, which exhausts the heated air and gases from the burning kilns, should be of fireproof construction, and should not expose the main plant through unprotected windows or door openings.

The hot air and gases from the burning or firing kilns should be conveyed to the drying tunnels through brick or other fireproof conduits, preferably under the surface of the ground, and so located as not to expose woodwork or other combustible material. The carriages upon which the green ware is conveyed into the drying tunnels should be wholly of iron or steel. Wooden slats are objectionable from the fact that they carbonize under heat, and readily ignite at comparatively low temperature in such condition.

The kilns should be of down draught brick construction to brick stacks, and at least twenty feet from the main plant or from any combustible material.

Where oils are used the danger lies in the probable spread of fire if such material should become ignited and in the presence of open light or flame where the mixing is done or where the mixed oil is used at the machines.

## CARELESSNESS OF AMERICAN PEOPLE.

There is one fact that I want to call your attention to in particular, and that is the general carelessness of the American people, in regard to the fire hazard. After you get your fireproof buildings, everyone of your employees should be instructed to use the utmost care to avoid fires.

The losses on brick and tile plants in Iowa, during the last three years have all been total to the insurance carried. This is one of the main reasons why risks of this class have been unprofitable to insurance companies. There is no salvage. Many of the leading companies have brick and tile plants on their prohibited lists.

Some companies accept the insurance where the plant is of brick construction and decline it if the buildings are frame. But there have been heavy losses here in Iowa on plants built entirely of brick. There is no doubt that the losses, where the buildings were of brick construction, would have been less, if the openings between the different parts of the plant had been protected by double standard fire doors, and if the boiler room had been cut off from the main building by a standard fire wall.

Another argument for building better brick and tile plants is that the man who has a fire is put out of business until he can rebuild. And very often the loss which he sustains until he is ready to operate again (by reason of the fact that he is out of business) amounts to a large sum of money.

The state fire marshal's office was established July 4, 1911. According to its records, the fire losses in Iowa on brick and tile plants have amounted to \$83,000.00 of this amount, in round numbers, \$43,000.00 was covered by insurance, leaving a loss over and above the insurance of \$40,000.00. This \$83,000.00 of property is gone, it is a total loss. The various owners have had their losses reduced by the insurance but in each case there has been a loss over and above the insurance.

This is the day of fire prevention and tremendous effort is being made to reduce the enormous fire waste in the United States and Canada, which amounts annually to about \$250,000,000.00.

Shall we not then resolve as manufacturers and as insurance men to co-operate to reduce the fire waste on brick and tile plants? The insurance men to supply you with the data and reasonable requirements, and you to co-operate by erecting better buildings. It will pay.

First, because the insurance rate will be less and you will save money.

Second, because the honest man who has a fire, even though he is insured, has a loss by being put out of business.

Third, because there is usually a loss to the owner on the plant itself over and above the insurance.

Fourth, because we will be doing our part to help reduce the great fire waste of the country.



# PERSONAL AND GENERAL NEWS.

## Doings of the Northwest this Week Boiled Down for Busy Readers

### PERSONAL AND GENERAL.

Negotiations, which have been pending for some time, have been concluded by the Northern Floor Surfacers Co., of Green Bay, Wis., with the Chicago Builders' Specialties Co. for the handling of the surfacers throughout the United States, says the Green Bay Gazette. H. M. Capron is president of the Chicago company. The Northern company is also manufacturing a machine for surfacing terrazzo cove bases, and also is putting out the cove base rubber as an attachment to the surfacer, using the same motive power for the base machine.

Davenport's building season opened early this year. Contractors are busy, especially with residences and the architects are reported to be "working full time."

Erection of dwelling houses east in one piece of concrete will be a feature of the manufacturing of the Hollow Wall Cement Co., Mitchell, S. D., incorporation papers for which have been filed with the secretary of state of South Dakota, by O. E. Cassem, W. W. Reams and H. T. Frost of Vivian, S. D. The main purpose of the corporation will be to manufacture forms for the construction of concrete houses, which were recently patented by Mr. Frost. The factory and offices of the company will be located in Mitchell. Officers, at present, are in Western National Bank building, Mitchell. A concrete silo will be built by the company.

Sanitary Plumbing & Heating Co. incorporated; place of business, Virginia, Minn.; general business, manufacturing and installing plumbing, heating and ventilating systems; capital stock, \$10,000, shares \$100. Incorporators: Andrew Grande, Edward L. Blackwell, Emory G. Stevenson and An-

The Universal Crusher Co., Cedar Rapids, Iowa, has bought the stock of the Eureka Stone & Ore Crusher Co., of Cedar Rapids, consisting of finished and unfinished stone crushers, elevators and screens, patterns and a large amount of repair parts for all sizes of crushers.

The Asbestos Protected Metal Co., Beaver Falls, Pa., is marketing a new form of prepared roofing which is named Aegisroll. The body of this roofing is wool felt, impregnated by waterproofings and completely enveloped in a coating of asphalt compound. To its upper surface is attached pure asbestos felt, while the lower surface is protected by a coating of crushed quartz. The asbestos and the crushed quartz are both imbedded into their respective surfaces while the asphalt is hot, and they are therefore permanently attached. This roofing can be furnished in a variety of attractive colors, thus making possible artistic combinations between roofs and the color treatment of the building.

The newly elected officers of the Racine Builders' Club are as follows: Henry Mohr, president; William Larson, first vice president; William Hetzel, second vice president; William Pugh, secretary; Charles Paunch, treasurer; Griff Jones, trustee for three years.

The American Cement Stone Co., Minneapolis, has been incorporated by Peter N. Nelson, Swan Swanson and Edward R. Nelson for making cement blocks, sidewalks and concrete construction; capital, \$25,000.

Fred Anderson, J. B. Anderson and S. W. Bardwell, Minneapolis, have incorporated the Fred Anderson Co., for general contracting, manufacture of sash doors and blinds and planning.

The F. C. Peabody Co., general railroad contractors, capital stock \$30,000, also organized. Peter E. Meagher, Duluth, F. C. Peabody and Lloyd Peabody, St. Paul, are the incorporators.

After an illness of one week Heber H. Hanford, age 68, president of the Hanford Construction Co., and a resident of Duluth for 33 years, died Feb. 23. The widow, a daughter, Miss Bertha Hanford, and a son, Arthur Hanford, survive.

The Gibson Reinforced Concrete Culvert Co. is a new firm at Billings, Mont. J. F. Kelly and W. J. Scott, proprietors.

Al. Lindsey, formerly of Estacada, Oregon, has located at Scobey, Mont., in the general contracting business, and J. S. McCurdy will open a lumber yard there.

Brown, Yardwood & Harrod, builders, have located in Pipestone, Minn. One of their first contracts is the erection of a modern dwelling for C. T. Howard; work is under way.

Victor H. Leeby, secretary of the Builders' and Traders' Exchange, Fargo, N. D., has engaged in business of contractors' specialties and manufacturers' agent. His office is at the Builders' and Traders' Exchange, Fargo. Mr. Leeby is agent for hollow tile, Menomonic red sand mold and other brick, lime, Adamant slate paint for blackboards, R. L. W.

waterproofing paints, Carney's bricklayer cement, concrete mixers, American Mason Safety Tread Co., and other lines.

The Cast Stone Construction Co., of Eau Claire, Wis., has been incorporated under the law of the state of Wisconsin. The nature of the business of the new concern will be the manufacture of concrete blocks and the conducting of a general contracting business in the construction of water works, sewers, pavements, buildings, barns, basements. The new company is capitalized at \$25,000. The incorporators are W. S. Kelley, T. F. Fleming and T. F. Frawley.

Ole Larson of Ada, Minn., has invented a dirt or gravel loader which is in the form of an attachment which can be attached to any gas tractor and will load dirt or gravel on wagons at the rate of about one yard per minute. The attachment to be left on the tractor while hauling. So the same tractor can be used for hauling as well as loading. With the aid of this invention it will require only two men to operate a train load of gravel or dirt.

Fargo's city commission may appoint a building inspector instead of letting the city engineer act. It is understood that some of the members of the commission have in view a man who will rigidly enforce all the building ordinances with the contractors and that his employment may be made in the near future.

Thief River Falls Iron Works incorporated; place of business, Thief River Falls, Minn.; general business, manufacturing machines and tools of various kinds; capital stock, \$25,000; shares, \$10 each; incorporators, Math Barzen, Rasmus Oen, Robt. McGinn and E. A. Harvey, all of Thief River Falls, Minn.

St. James Star Theater Co. incorporated; place of business, St. James, Minn.; general business, to operate moving picture and vaudeville theaters; capital stock, \$10,000; shares, \$25; incorporators: Fred M. Priest, John A. Krhoun, M. Running and Orrin O. Lawrence, St. James, Minn.

The first money for preliminary work on the proposed railway from Red Wing, Minn., across the Mississippi river into Wisconsin has been pledged. This project which has been the ambition of the community for a generation and which was in slightly different form, part of the Duluth, Red Wing & Southern railway plans back in the eighties, seems nearer consummation in a practical way than at any time in the past. The Red Wing Manufacturers' Association at its meeting March 7, decided to take preliminary steps to organize a Railway Bridge & Terminal Co. and instructed its railway committee to submit plans with a view of getting twenty men or institutions to subscribe \$500 each, or as much thereof as may be necessary, for a fund with which to defray the expenses of surveys and other necessary preliminaries. The sum of \$2,000 was pledged at the meeting Saturday evening. The annual meeting of the association in April is expected to see the completion of the fund, to be subscribed by Red Wing's manufacturers, retailers, professional men, and citizens generally, who realize the necessity of a railroad into Wisconsin.

Spokane Sash & Door Co., Spokane, Wash., celebrated its 10th anniversary on Feb. 22, 1914. More than 100 officials, employees and guests attended the banquet at Hotel Spokane. W. H. Miller, community development expert of the Western Retail Lumbermen's association, was toastmaster. Among the speakers were: Mayor W. J. Hindley, James Bailey, John Peterson, Al Tillisch, A. C. Clausen, R. R. Mohny, John A. Grythman, Henry P. Engdahl, W. S. McCrea, Fred Hamilton, Dr. Harvey Smith, Frank Fruehschuetz and Enoch E. Engdahl, president of the company.

The big building at Stevens Point, Wis., formerly used as car shops by the Wisconsin Central, which has been vacant 12 years has been leased by the Railway Material Co., of Chicago and New York for the manufacture of brake shoes for cars and locomotives. The company expects to employ 110 men mostly moulders and the payroll will amount to \$50,000 a year. This concern now has foundries at Toledo and Phoenixville, Pa. Work on remodeling the building is under way; it is expected the factory will be in operation about April 1.

E. B. Ferguson, of The Eureka Machine Co., Lansing, Mich., was in Minneapolis this week after a tour of Western Canada and the northwest. He found general northwestern conditions good.

Two new directors were chosen at the annual meeting of the Omaha Structural Steel Works, W. A. Smith, W. C. Bullard, John W. Towle, R. A. Leussler, W. L. Carey, K. B. Vogel and R. L. Hyde being the board. Officers were elected:



J. W. Towle, president; R. A. Leussler, vice president; W. L. Carey, secretary and K. E. Vogel, treasurer.

The Feyen Construction Co. has been incorporated at St. Paul by Nichols Feyen, H. H. Flor and Kathrine Feyen; capital \$50,000; general contracting, pipe lines, sewer work, ditches, bridges, roads, paving.

Michael J. Sullivan, cut stone contractor, Minneapolis, and member of the legislature died this week of Bright's disease, aged 45.

Jas. J. Madden, an eastern business man, with several eastern associates, will open a wholesale plate and window glass institution in Great Falls, Mont., within the next three months. Mr. Madden is in the east making arrangements for the forwarding of the first consignment of stock. The company has obtained a lease to a portion of property on Milwaukee trackage and will erect a large building. Stock to be carried will consist of plate and window glass, and in connection with the wholesaling department the company will install a complete line of manufacturing equipment required in preparing glass for store fronts, plate beveling, prisms, leaded lights and for silvering mirrors. All special stocks for store fronts will be handled.

Announcement has been made of the election of George S. Bartlett to the vice presidency of the Edison Portland Cement Co. Mr. Bartlett's many friends, formed during his twenty-five years connection with the cement industry, are congratulating him upon his election to his new position. He has been identified in the past with the Milwaukee Cement Co., the Western Portland Cement Co., and the Universal Portland Cement Co. He is at present a director and member of the executive committee of the Cement Products Exhibition Co. The Edison Portland Cement Co. gains an official of capacity and wide experience in Mr. Bartlett.

The Cambridge (Iowa) Opera House Corporation has been formed and will be incorporated under the laws of the state to erect opera house buildings. The first officers will be Albert Hill, president; James McKee, vice president, and F. B. Tyler, secretary and treasurer. The board of directors will consist of Fred Larson, L. G. Pulis, James McKee, Albert Hill, Ben Johnson, H. R. Maywald and H. A. Early. The plans and specifications have not been selected but it is planned to have the building erected this spring.

#### ARCHITECTS AND ENGINEERS.



George H. Herrold, office engineer of the department of public works, St. Paul, is a leading candidate for the council, in the campaign for the first election under the new charter for the commission form of government. Mr. Herrold is one of the liveliest spirits of the live local organization of civil engineers in St. Paul. He is regarded by them as particularly well equipped by experience and executive ability for membership in the new council, and for assignment as the head of the public works or public utilities or parks,

playground and public building department. Mr. Herrold is secretary of the state organization of engineers, which is further evidence that those who know him best appreciate his ability. He is in the prime of life and he has the natural energy needed for the administration, and especially the first administration, of any of the important departments of city government mentioned. It would seem that by all means the new council should include such a member as Mr. Herrold would be. He has resided in St. Paul about fifteen years. Mr. Herrold was born in Fulton, Ill., in 1867. He attended Leland Stanford University, California. He was on the engineering staff of the Great Western for a number of years.

C. E. Parry is architect and engineer at Ft. Frances, Ont., Stethem block; civil, architectural, mechanical.

E. H. Hewitt, of Hewitt & Brown, architects, Minneapolis, addressed the Women's Club, Minneapolis, on House and Home Conditions. The talk was illustrated.

Architects of the state formally opened the School of Architecture, College of Engineering, University of Minnesota, Feb. 27 with a banquet. Prof. Frederick Mann, head of the department, and E. H. Hewitt responded to toasts. President Vincent of the university, made the formal intro-

duction and Dean Francis C. Shenehon of the College of Engineering, presided. A new era of architecture in Minnesota was predicted.

The annual meeting of the Wisconsin Engineering Society will be held in the engineering building, Madison, Wis., March 19 and 20. City Engineer J. S. McCullough of Fond du Lac, is a trustee.

Prof. A. J. Becker, acting dean of the civil and mechanical engineering department at the North Dakota university, has obtained a leave of absence from the institution next year. He will take up a postgraduate study of architecture at the University of Illinois next year. Prof. Calvin H. Crouch will return to the university next fall to resume his position of dean of the department.

Madison, Wis., architects protested this week in a communication to the board of regents of the university against the operations of the architect's force of the university in the local field. Local architects say that members of the staff of the university architects have been doing a great deal of architectural work in the city. They declare that this is not fair to the men who are in business in the city, and they ask the university authorities to limit the work of the university men to that for which they were employed—the work on the university buildings. The protest was signed by Louis Claude, secretary of the Madison Architect's club upon the request of all of the architects of the city.

Among the surveyors and engineers who were in attendance at the annual meeting of the State Association of Surveyors and Engineers in Minneapolis, February twenty-fourth, were: John Abercrombie, district engineer, highway commission, Alexandria, Minn.; J. H. Armstrong, county engineer, Ramsey county, St. Paul, Minn.; Jos. H. Baugh, drainage engineer, Thief River Falls, Minn.; Walter F. Brooks, engineer, Blue Earth county, Mankato, Minn.; H. T. Bloomquist, city engineer, Mankato, Minn.; A. J. Bradshaw, county surveyor, Le Sueur Center, Minn.; Jas. E. Carroll, assistant commissioner of public works, St. Paul; Geo. W. Cooley, secretary and street engineer, highway commissioner, St. Paul; Ralph M. Cooley, district engineer, highway commission, Minneapolis; Herbert B. Childs, district engineer, highway commission, Minneapolis; J. C. Carpenter, district engineer, highway commission, Stillwater, Minn.; Wm. Danforth, consulting engineer and contractor, St. Paul; B. H. Dunham, assistant city engineer, Minneapolis; H. W. Daniels, city and district engineer, highway commission, St. Peter, Minn.; Harvey S. Dartt, city engineer, Owatonna, Minn.; O. L. Dent, highway engineer, Carlton, Minn.; Chas. A. Forbes, division engineer, state highway commission, St. Paul; Wm. C. Fraser, consulting and contracting engineer, St. Paul; A. L. Flygare, highway engineer, Red Wing, Minn.; C. W. Gove, city and drainage engineer, Windom, Minn.; A. S. Gove, assistant county surveyor, Windom, Minn.; Wm. Geisheken, city engineer, Red Wing, Minn.; Geo. H. Herrold, office engineer, St. Paul; J. E. Hill, civil engineer, Minneapolis; W. R. Hoag, city, wrainage and construction engineer, Thief River Falls, Minn.; J. W. Hruska, district engineer, highway commission, Le Sueur Center, Minn.; R. D. Jorgens, civil engineer, Minneapolis; F. V. King, civil engineer, Redwood Falls, Minn.; S. L. Kennedy, deputy county engineer, Princeton, Minn.; Louis Knudson, city engineer, Brainerd, Minn.; A. H. Merrill, district engineer, Mora, Minn.; Oliver Mattieson, city engineer, Minneapolis Bridge Co., Minneapolis; F. W. McKillip, city engineer, Faribault, Minn.; Stephen F. Mullen, district engineer, Green Isle, Minn.; Frank H. Nutter, landscape engineer, Minneapolis; Chas. E. Nagel, state engineer, bridge department, St. Paul; Arthur Nichols, landscape engineer and architect, Minneapolis; Geo. A. Ralph, consulting engineer, St. Paul; B. J. Reynolds, city engineer, Redwood Falls, Minn.; W. C. Stoope, civil engineer, Minneapolis; D. R. Savage, division engineer, highway commission, Windom, Minn.; Henry A. Swenson, city, drainage engineer, Center City, Minn.; Norris Y. Taylor, district engineer, highway commission, Litchfield, Minn.; P. M. Corell, district engineer, highway commission, Cambridge, Minn.; John Wilson, city engineer, Duluth, Minn.; E. V. Willard, drainage engineer; W. H. Hale, mining engineer, Minneapolis; Mr. Saxon, civil engineer, Worthington, Minn.; H. A. Hanson, civil engineer, Delaven, Minn.; W. T. Larson, county surveyor, Lake Benton, Minn.; A. J. Fenn, district engineer, Little Falls, Minn.; C. H. Ramsdell, landscape engineer, Minneapolis; W. B. Saunders, civil engineer, Minneapolis.

The Engineers' club of Minneapolis had an interesting meeting at the University club rooms last week, and listened to an able paper by R. D. Thomas, assistant engineer, St. Anthony Falls Waterpower Co. The subject was "Excess Water Power at St. Anthony Falls." The members were presented with a year book for 1914, which contained subjects of papers given before the club for the last seven years, also some of the assigned papers to be presented this year. At



next month's meeting a paper by H. M. Stout on, "Valuation Engineer" of Northern Pacific Railway Co. will be read.

St. Paul Engineers' Society had a large meeting March 9, with about sixty present to hear William Butler's interesting, illustrated talk on the Detroit River Tunnel. Eleven new members were received, and applications for nine more.

R. V. L. Haxby, a son of R. J. Haxby, of Haxby & Gillespie, architects, Fargo, has become a partner of E. S. Stebbens, architect, Minneapolis. The new firm, Stebbens & Haxby, began March 2. Mr. Haxby had been with Mr. Stebbens over two years.

## BRICK AND TILE NEWS

St. Cloud brick manufacturers are getting ready for spring season, with good prospects for the year; two large brick yards on St. Augusta road sold out entire stock.

The Range Sand, Lime Brick Co. will commence operations this spring at Pengilly, near Swan Lake, Minn., this plant is equipped with the latest and best machinery for the manufacture of high quality of building and ornamental brick at low cost. The new industry will be a boost for the range as its uses range material and is developed by range capital. Beran & McQueen are representing the company in Duluth and the range towns with headquarters in Hibbing.

### A NEW KIND OF BRICK.

P. C. Hansen, Wilberton, Okla., has recently been granted patent rights on an entirely new form of brick, which the inventor and his associates say will reduce the present high cost of building, besides making a more substantial and artistic structure. This new brick is made from a glasslike cement obtained from sand, and unlike the ordinary brick, this one requires about twelve hours of burning to produce a finished article, thus making a large saving in time and money in this respect. Mr. Hansen has been experimenting on this brick eight years, which he found would require special machinery also, thus causing more delay in getting his company organized and the manufacture of bricks commenced.

### BONDS IN BRICK WORK.

Several of the bonds that are now employed in exterior brick work are described in an interesting article by H. D. Eberlien. He says the most common bond, in fact, almost the only one employed during a great part of the nineteenth century, is the running bond, in which all the courses are composed of "stretchers," that is to say, brick laid lengthwise, the only "headers" or endwise brick visible being at the window jambs, at the starting of piers and pilasters and in straight header courses at more or less frequent intervals where their use is made obligatory by the local buildings laws to tie the face-wall to the backing. Each course breaks joints vertically with the courses immediately above and below. Running bond is perhaps the simplest and certainly the least interesting and artistic way of laying brick and has little to commend it except considerations of economy.

The Flemish bond, in which every course consists of alternate headers and stretchers is, after the running bond, the one we most commonly meet with, having been generally used in our brick buildings of colonial date, in which the black header and red stretcher effect is so often noticeable. Flemish bond is constructionally honest, artistic and satisfying, and its almost universal employment in modern building of colonial style cannot be too strongly commended.

The double-stretcher Flemish bond which, as its name denotes, consists of two stretchers together, followed by a single header in all courses, the headers being laid above the joints between the two stretchers in the course next below. It is coming more and more into vogue in America and has been used in some of our largest buildings with signal success.

For the vertical joints between the contiguous stretchers mortar colored to exactly match the brick is often used, thus making a blind joint and giving the effect of one double-length stretcher. The use of double-stretcher Flemish bond sets a big, broad scale and can be employed to advantage in large wall surfaces, particularly where it is desired to take off somewhat from the appearance of height, as the strongly marked horizontal lines have that effect. This feature can be further emphasized by slightly increasing the thickness of the horizontal mortar joints.

English bond and Dutch cross bond, like both the single-stretcher and double-stretcher Flemish bond, are replete with artistic feeling and deserve to be far more widely known and used than they now are in America. Not only are they essentially artistic but they are strong and honest in structure. Both English bond and Dutch cross bond have alternate courses, the one wholly of stretchers and the next wholly of headers; but in the English bond the stretchers of

all the courses come directly above each other while in the Dutch cross bond the stretchers of the first and fifth courses break joints with the stretchers and the third and seventh courses respectively and thus throughout, giving a diagonally diapered appearance if the mortar joints and the hue of the brick be judiciously contrasted.

The bonds mentioned are the most usual kinds, but one also meets with special adaptations of recognized types; it is, however, quite sufficient for general purposes to remember the five enumerated. In fact, many people, who are supposed to have some knowledge of such matters, have difficulty in keeping differences clearly in mind and generally fall down in trying to describe them.

### C. A. P. TURNER INSTALLS MUSHROOM SYSTEM HEAD-QUARTERS IN FINE NEW OFFICES.

Another famous product of Minneapolis, which like its flour has spread over the earth into all continents, The Turner Mushroom of reinforced concrete construction has been compelled on account of its rapid growth to get new quarters. The Turner system, which until March 1, occupied the 8th floor of the Phoenix building, is now installed in the top floor of the new building, 7th st. and 1st av. N., just built by T. B. Walker and others. This is a thoroughly modern, 5-story, store and office building and the Turner System occupies the entire top floor. In size and advantages these new quarters are unsurpassed in the northwest, by those of any engineering enterprise.

The new offices comprise a drafting room, extending along three sides of the building, with ample daylight from a large number of windows, and plenty of room for the 50 assistants in the drafting department, which the growing business will soon demand. In this room will be installed the first 1,000-candle power Westinghouse lamps, put into use in a drafting room, not only in Minneapolis, but anywhere. These lamps will be placed 25 feet apart and will furnish light enough to turn night into day, for work on the drawing boards. The other rooms of the suite are: Mr. C. A. P. Turner's private office, a large square library-like room; stenographers' room adjoining, private office for Mr. Turner's assistant and unusually large reception room and a large office which will be the legal department. The entire floor space is 65x112.

The present complete headquarters occupied by Mr. Tur-



Glacier Hotel, Glacier Park, B. C. It looks like a row of houses, on account of the string of additions put on, as a result of increased demand.

ner are in remarkable contrast with the little room he first used when he started in business here, about 7 years ago. Later he moved in the Phoenix building and immediately a new industry grew up there for the manager of the Phoenix building—namely, to find room enough to take care of Mr. Turner's continual demand for more space. The business, elevated to the 8th floor, gradually spread out into nearly all the rooms on that floor and was occupying that space when removal to the present new quarters took place.

While these changes were taking place in the headquarters the number of buildings in which the Mushroom system was used increased from the first one, a warehouse in Minneapolis, to two thousand, designed on this system, scattered at home and abroad, and all without a single failure.



# CONSTRUCTION & CONTRACT NEWS

OF SPECIAL VALUE TO ENGINEERS, CONTRACTORS, BUILDERS AND MANUFACTURERS

## MINNEAPOLIS, MINN.

Office: 912 Lumber Exchange. Phones: N.W. Main 3902; T.S. 2194.  
Please telephone news not later than Wednesday.

Items Marked with Asterisks Not in Daily Sheets.

Items marked with asterisk not run in Daily Sheets.

### BUILDING PERMITS.

Douglas A. Fiske, 601-03 Marquette av., interior alterations and new store front; Jas. A. Leck & Co., builders.....	12,000
Dodson, Fisher, Brockman Co., 15 N. 3d st., repairs after fire; H. N. Leighton Co., builders.....	1,300
P. E. Von Kuster, 2200 Minnehaha av., 1½-story frame dwl.; Andrew Stenvig, builder.....	1,600
P. E. Von Kuster, 2204 Minnehaha av., 1½-story frame dwl.; Andrew Stenvig, builder.....	1,600
J. P. Steffens, 3033 N. 3d st., 1-story plaster veneer dwl.; F. O. Anderson, builder.....	2,500
F. C. Wynn, 4251 Garfield av., 2-story plaster veneer dwl.; W. H. Evans, builder.....	4,300
W. G. Iverson, 3633 38th av. S., 1½-story frame dwl.....	1,200
W. G. Iverson, 3637 35th av. S., 1½-story frame dwl.....	1,200
W. G. Iverson, 3403 26th av. S., 1½-story frame dwl.....	1,200
W. G. Iverson, 3401 26th av. S., 1½-story frame dwl.....	1,200
The Gund Brewing Co., 459 Harrison st. NE., 1-story brick addition to rear of saloon; M. Theisen, builder.....	1,500
The Gund Brewing Co., 1501 S. 6th st., 1-story brick addition to side of saloon; M. Theisen, builder.....	1,800
Richmond Bros., Lessees, 245 Nicollet av., new store front and alterations; W. M. Crawford & Co., builders.....	1,500
The First National-Soo Line Building Co., 101-13 S. 5th st., 19-story granite, terra cotta and brick office building of steel skeleton construction with tile floor arches.....	1,250,000
Henry W. Quist, 4101 Wentworth av., 2-story plaster veneer dwl.....	4,200
G. T. Gustafson, 3709 16th av. S., 1½-story frame dwl.....	2,000
C. O. Rodein, 2739-41 S. Emerson av., concrete block foundation and alterations.....	1,500
Adolf Wurtz, 3432-34 20th av. S., 2-story plaster veneer flats (4).....	7,600
Fred E. Reid, 240 6th av. S., brick addition to warehouse; J. and W. A. Elliott Co., builders.....	20,000
Wm. Best, 427 N. Russell av., 1-story plaster veneer and shingle dwl.....	1,500
Wentworth & Griffith, 812 9th av. S., 3-story brick apartments (25); E. J. Graves, builder.....	25,400
James Hayes, 1621 Thomas place, 2-story plaster veneer and frame dwl.; Louis Rudick, builder.....	3,600
Alfonso Dieckman, 4008 Wentworth av., 1-story frame dwl.; J. A. Fetterley, builder.....	3,800
Guy V. Robinson, 134 W. 48th st., 1½-story plaster veneer dwl.; C. G. Carlson, builder.....	3,000
H. H. Placke, 3500 1st av. S., 2-story brick veneer flats (4).....	6,000
Peter Luukkonen, 231 N. Irving av., 2-story plaster veneer flats (4); John H. Salo, builder.....	4,800
Helena P. Hayes, 4520 Aldrich av. S.....	2,000
Corporation Securities Co., 1308-08 Nicollet av. and 67 to 77 S. 13th st., 1-story brick and concrete stores (10); Tyler & Co., builders.....	18,000
S. J. Palmer, Jr., 1952 S. Penn av., 2-story plaster veneer and brick veneer dwl.; Danielson Bros., builders.....	7,500
T. K. Setre, 3704 16th av. S., 1-story plaster veneer dwl.....	2,200
Henry Rauch, 625 Plymouth av., 2-story brick store and offices and flat; Henry L. Muther, builder.....	7,500

O. K. Westphal, architect, Northwestern building, is preparing plans for a 13-family apartment building; owner's name withheld, on Garfield av., between 23d and 24th; brick, 54x72, 3-story flats, 4-room and bath gas stoves, ice boxes, vacuum cleaner system, steam heat, gas in laundry, composition roof, mirrors and flush veneer doors; beam ceiling, paneled wainscoting, medicine cabinets, tile floors and baths, cement floors, electric light and bells, telephones, six garages, marquise front entrance, garbage chutes and burner, McNamara varnish. Architect taking figures; will build this spring.

\*Purcell, Feick & Emslie, architects, Auditorium building, have drawn plans for a community house at Eau Claire, Wis., for First Congregational church; Sunday school and class rooms, kitchen, showers, fireplace, vapor heat, stone walls to match church; one high story, 55x64, shingle and tin roof, concrete foundation, wiring, birch floors, leaded glass, case-miner windows. Owner will take figures. E. P. Ingram, member of building committee.

E. H. Sund, architect, Andrus building, will have plans completed March 21, for the old people's home at Beresford, S. D.; brick and tile, asbestos shingle roof, steam heat, plumbing, wiring, hardwood and flexotile floors, 5 baths, kitchen and dining room equipment, figures will be taken by architect; S. O. Stansland, member of building committee, Beresford; O. A. Ulwin, member of building committee, Red Wing, Minn.

Sub-contracts on the armory addition, Jackson & Stone, architects, Security block, include: Tar and gravel roofing, Henseler & Naused, 1324 Marshall av. Heating and plumbing,

Bjorkman Bros., 710 S. 10th st. Plastering, J. D. Leslie, 304 Plymouth building. Painting, E. M. Driske, 457 Temple Court. Electric work, V. Bell Electric Co., 228 S. 4th st. J. & W. A. Elliott Co., general contractors, Lumber Exchange.

\*Lindstrom & Almars, architects, Auditorium building, have furnished plans for a large modern residence at Braham, Minn., for Fred Soderberg, druggist; cost, \$10,000; brick or stucco exterior, tile roof, two tile fireplaces, tile bath, hot water heat, birch and oak floors and trim. Owner will take bids.

\*Chapman & Magney, architects, Essex building, have furnished plans for a block of eight stores with basements, at 13th and Nicollet; Corporation Securities Co., owners. James A. Taylor, 2730 Nicollet av., general contractor; brick, concrete foundation, flat roof, hot air heat, plumbing, wiring, plate glass fronts, hardwood floors, decorated tile in fronts.

Figures are being taken on the brick and stone Swedish Evangelical Lutheran church at Milaca, Minn., by owner; Kirby T. Snyder, architect, Plymouth building; also on Christian Church, Fairmont, Minn., plans by same architect; W. R. Burton, pastor, Fairmont; press brick, stucco, skylight, cornice; iron.

\*Haley & Johnson, architects, Plymouth building, will furnish plans for a store and flat building, with roof garden, at Selby and Snelling, St. Paul; eight stores and fourteen flats; brick and terra cotta, all modern, day labor. Owners, Joseph and Charles Freidman, tailors, 6th st., St. Paul.

H. Kelly & Co., 1029 S. 3d, have the heating contract for the Douglas Fiske block, Nicollet between 8th and 9th. Sheet metal and roofing to Selden Roof Co., 76 Western; Splady, Albee & Smith, general, 414 Plymouth. Victor F. V. De Brauwere, architect, Plymouth building.

\*Keys & Colburn, architects, Donaldson block, are taking figures on a bath room equipment in the Minnetonka residence of D. D. Tenny, 2112 Pillsbury. Shower tub and lavatory. All bids in March 14. Bids are in for the plumbing of the Horace Lowry residence.

Beyond preliminary inquiries, nothing has developed further in regard to the proposed 25-story skyscraper, permit for which it was said was sought on account of the prospect that the city council would limit the height of buildings to ten or fifteen stories.

Long, Lamoreaux & Long, architects, 830 Hennepin, are preparing plans for the barn at poor farm, 82x100, L-shaped, brick and concrete, horse and cow stable, plumbing, steel equipment, concrete silo, to be built this spring; architect will take figures.

A men's dining hall may be installed at the state university in remodeling the old chemistry building. Plans drawn by Long, Lamoreaux & Long, architects, 830 Hennepin. E. M. Morgan, of university faculty, member of board of governors for men's union.

C. Howard Parsons, architect, Phoenix building, has completed plans for school at Hampton, Iowa, and general contract will be let March 19; plumbing, heating, ventilating later; sketches for city hall Brainerd and school Ely, Minn., are being made.

A 4-story, concrete store and office building will be built at 925-927 Nicollet, by Byron T. Harris, Northwestern Knitting Works; cost \$80,000, work on basement and first story to begin at once. Land lease negotiated by O'Brien & Harris.

\*Purcell, Feick & Emslie, architects, Auditorium building, have plans in progress for a parsonage at Eau Claire, Wis., First Congregational church; frame and stucco, 2-story, modern, hot air heat, two fireplaces. Architects will take figures.

Contract awarded to Thompson Sterrett Co., Chicago, for general work of First National-Soo, 20-story building; to be ready for use in 11 months; reports state that contract with Chicago builders specifies Minneapolis materials and labor.

Bids received by county board, court house, until 11 a. m., April 6, for grading and graveling extension of Broadway NE. into Ramsey county; plans on file with county surveyor. Check for 5 per cent. Al. P. Erickson, county auditor.

\*Stebbins & Haxby, architects, Masonic Temple, are preparing the plans for the 6-room addition to the Penn school and the 8-room addition to the Grant. Both will have gymnasium and bath rooms. Plans out in three weeks.

\*The Sterling Electric Co., 33 S. 5th st., has the electrical contract for the Douglas Fiske block, Nicollet between 8th



# PROPOSAL ADVERTISING FOR BIDS

## PROFESSIONAL DIRECTORY

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OFFICIAL ADVERTISEMENTS for proposals will be published in this department on receipt of copy with order from authorized official, building committee, architect or engineer.

**RATE FOR NOTICES** in this department—15c per line each insertion. No discounts allowed. Several insertions are customary to insure full and fair competition.

**PRINTED SLIPS** are furnished to officials, architects and others interested, for distribution by them, without extra charge.

**PROFITABLE INVESTMENT**—It has been the experience of those who have used this medium that by investing a few dollars they have saved hundreds.

**COPY RECEIVED** up to Friday, 10 a. m., will be published in the paper, delivered to subscribers on Saturday, but should reach the publication office, Lumber Exchange, Minneapolis, earlier in the week, when possible.

**LATE NOTICES** Friday morning can be transmitted by long distance telephone.

### FILTER PLANT.

Huron, S. D., March 6, 1914.

Sealed proposals will be received by the board of commissioners of the city of Huron, S. D., until 2 p. m., on the 26th day of March, 1914, for the construction of a mechanical gravity filter plant of one and one-half (1½) million gallons daily capacity, in accordance with the plans and specifications therefor, prepared by L. P. Wolff, consulting engineer, now on file in the office of the city auditor.

The work will be divided into four separate portions or items as follows:

**ITEM ONE**—The filter plant building and pump pit.

**ITEM TWO**—Filter equipment.

**ITEM THREE**—Intake suction well and miscellaneous piping outside of building.

**ITEM FOUR**—One motor driven and one engine driven centrifugal pump and one sixty-six (66) inch by sixteen (16) foot horizontal tubular boiler.

Separate bids may be made for one or more of the above items and separate contracts awarded therefor.

All bids must be on blank forms furnished for that purpose and each bid must be accompanied by a certified check for a sum equal to 10 per cent of the amount of the bid, made payable unconditionally to the order of the city treasurer, as a guarantee of good faith.

Plans and specifications may be seen and blank forms of proposals obtained at the offices of the undersigned and of L. P. Wolff, consulting engineer, 1000 Germania Life Building, St. Paul, Minn. The right is reserved to reject any or all bids.

**F. F. OVIATT**,  
City Auditor.

(Continued on page 16)

## PROFESSIONAL DIRECTORY

### ENGINEERS

**OSCAR CLAUSSEN ENGINEERING COMPANY**

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NORTHWESTERN MANAGERS

**NATIONAL SURETY COMPANY OF NEW YORK.**

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and 9th sts. Splady, Albee & Smith, general contractors, and Victor F. E. De Brauwere, architect.

\*School board will purchase forty Adamantine wall fixtures and two hundred seventy-two vitreous wall fixtures and four range fountains for the drinking fountain equipment of the school. Cost, about \$12,000.

An apartment building for twenty-five families will be built by Wentworth & Griffiths, at 812 9th av. S.; 44x88, 3-story, dwelling, all modern, hot water heat, concrete foundation, at 1621 Thomas Place; 28x38, \$3,600. Louis Rudick, contractor, 1206 8th av. N.

A duplex is being built at 815 Logan av. N. by M. L. and Rose Friedlander; 26x46, plaster veneer, modern, hot water heat, stone foundation; \$4,900. D. Addis, contractor, 1204 8th av. N.

H. Edward Walker, architect, 202 Lumber Exchange, has forwarded plans for the residence, Fairmont, Minn., for G. B. Goetz, owner taking figures; frame, stucco, modern hot water heat.

Figures are being taken by J. J. Garrick, owner, Port Arthur, Ont., on the 12 dwellings, frame, stucco, for which C. S. Sedgwick, architect, Lumber Exchange furnished plans.

Permit issued for First National-Soo skyscraper, Marquette and 5th, cost \$1,250,000, twenty stories, to be completed in a year. Robert W. Gibson, New York, architect.

A 4-flat is being built by H. H. Placke, 2301 E. 31st, at 3500 1st av. S.; 38x42, 2-story brick veneer, concrete block foundation, hot water heat, modern, \$6,000; day labor.

Cleveland Wrecking & Contracting Co., Minneapolis, is clearing the site in St. Paul for the new building, Jackson st., for the Northern Pacific and Great Northern.

Worthingham & Co, 332 3d av. S., have the plumbing contract, school for blind, Faribault; C. H. Johnston, architect; Kingsley & Payant, general contract, Faribault.

Railroad tracks across the campus, state university, will be lowered and roofed over, at expense of university and Northern Pacific from Oak st. to the river.

\*Julius Rosholt, Minneapolis, who is building the Farmers' railroad, Fairmount to Vebelen, N. D., states the road will be extended forty miles to Webster.

H. Edward Walker, architect, 202 Lumber Exchange, has sent the plans for the new bathhouse, Excelsior, Lake Minnetonka, to the town authorities.

Plans for 19th av. S. bridge will be submitted to council this week and referred to bridge committee, to decide, between steel and concrete.

A. N. Depte, 800 22d av. S., is taking bids on dwelling; 2-story, frame stucco; E. H. Sund, architect, 431 Andrews building.

City council commission on water works approved purchasing agent's selection of Nash meters, at \$6 each for 2,600.

An apartment building for twenty-five families will be built by Wentworth & Griffiths, at 812 9th av. S.; 44x88, 3-story brick, concrete foundation, steam heat, tile baths; cost \$25,400. E. J. Graves, contractor, 2734 Chicago av.

A modern dwelling will be built by Guy V. Robinson, 183 Malcolm av., at 134 W. 48th; concrete block foundation, 24x26, 1½-story, plaster veneer, hot water heat, modern, \$3,000. C. G. Carlson, builder, 3320 24th av. S.

\*Lindstrom & Almars, architects, Auditorium building, have furnished plans for a \$5,000 residence at Braham, Minn., for W. F. Way, editor; modern, stucco, hardwood throughout, hot water heat, fireplace, tile bath.

Alfonso Deeckmann will build a modern dwelling at 4008 Wentworth; 24x41, frame, concrete block foundation, hot water heat, tile bath, fireplace, modern; cost \$3,800. J. A. Fetterly, builder, 2020 Harriet av.

Long, Lamoreaux & Long, architects, 830 Hennepin, will have plans out latter part of month for the Slocum-Berggren warehouse; 5-story, brick and concrete, 100x106, plumbing, heating, two freight elevators.

\*Haley & Johnson, architects, Plymouth building, are preparing plans for four modern residences in Waseca, Minn.; frame and stucco, and one in Blooming Prairie. Address architects.

All inquiries regarding modern residence, Seabury av., for Mrs. Maud Dezuirk, should be addressed to Charles F. Dezuirk, Central Plumbing & Heating Co., 1903 E. Lake st., who will receive all bids.

A forestry building to cost \$25,000, is proposed for a permanent addition to structures at the state fair ground. W. T. Cox, state forester, and Professor E. G. Cheney, university farm school, interested.

Bonds carried for the school at Ivanhoe, Minn., 2-story and basement, \$12,000. Plans by H. Edward Walker, architect, 202 Lumber Exchange. Local brick, Mankato stone, shingle roof, structural iron.

J. & W. A. Elliott, general contractors of the Meyer Arcade addition, have let the plastering to S. G. Leslie, 304 Plymouth; Wm. M. Kenyon & Maurice F. Maine, architects, Metropolitan block.

A. B. Donaldson, 2628 15th av. S., has the steam heating contract, West Concord, Minn., school; H. Edward Walker, architect, 202 Lumber Exchange, F. E. Wright, general contractor, West Concord.

Geo. Benz & Son, 218 Hennepin av., will build an addition to 3-story building, 310 Hennepin; 22x55, 1-story, brick, \$2,500. H. J. Bauman, 226 S. 4th, builder; Buechner & Orth, architects, St. Paul.

## ST. PAUL, MINN.

404 Scandinavian American Bank Bldg. Phone: N.W. Cedar 1683.  
Mail or telephone news not later than Wednesday.

Items marked with asterisk not run in Daily Sheets.

### BUILDING PERMITS.

G. J. Sherwood, 607 Topping st., 1½-story frame dwl., Crowell near McKentry; A. M. Swanson, builder.....	2,000
Frank Allman, 230 W. Central, 1-story frame dwl., Charles near Victoria; Frank Allman, builder.....	1,800
E. Baremore, 11½-story frame and stone dwl., Lexington near Fairmont; Iver Matson, builder.....	3,000
P. Brandemann, 13 Leech, 1½-story frame dwl., Prospect near Ruth; Carl Johnson, builder.....	1,000
Mrs. Jessie Barrimen, 2-story frame dwl., Capitol Heights near Valley; Mrs. Jessie Barrimen, builder.....	2,400
R. F. Boyer, Snelling and Minnehaha, 2-story brick store and flats, Snelling near Minnehaha; Gust Anderson, builder.....	2,500
W. D. Lovell, builder, 1415 8th av. SE., Minneapolis, 2-story brick and tile dwl., Branson near Henden.....	6,500
Martin M. Mouso, 203 Como, 1½-story frame dwl., Albe-marle near Cottage; C. O. Hardwick, builder.....	2,000
John Bultrud, 1½-story frame dwl., Doswell near Raymond; John Bultrud, builder.....	2,600
Edward J. Power, 273 Kent, 2-story frame dwl., St. Clair near Victoria; C. E. Swanson, builder.....	2,500
W. E. Jernegan, builder, 1295 Van Buren, 1½-story frame dwl., Blair near Hamline.....	2,500
P. E. Anderson, 1½-story frame dwl., Orange near Frank; Chas. Peterson, builder.....	2,500
Ludwig Kahmer, builder, 315 E. Magnolia, 1½-story frame dwl., 370 Jessamine near Arkwright.....	1,500
W. E. Jernegan, 1295 Van Buren, 1½-story frame dwl., Seminary near Hamline; W. E. Jernegan, builder.....	2,500
Diocese of St. Paul, 2-story fireproof cathedral, W. 3d near College; P. Steinberg Const. Co., builders.....	92,900
C. E. Swanson, builder, 1-story frame and stucco dwl., Kittson near Fairview; C. E. Swanson, builder.....	2,500
G. Sturre, builder, 649 Como, 1-story frame dwl., Ashland near Snelling.....	2,000
Miss Fulda Olander, 2339 Pierce, 1½-story frame dwl., Pierce near Kaston; Gardner, builder.....	1,200
W. F. Moritz, 505 Pioneer bldg., 2½-story frame dwl., alterations and repairs, 522 Iglehart; D. E. O'Connell, bldr.	1,800
J. W. McCarter, builder, 499 Edmund, 2-story brick dwl., 493 Edmund near Arundel.....	2,500

\*Haley & Johnson, architects, Plymouth building, Minneapolis, have prepared plans for a large flat and store building for Friedman Bros., tailors, at Snelling and Selby, adjacent to the theater which they have been building; work to begin next week; eight stores and fourteen flats, with roof garden; brick and terra cotta, 3-story, concrete foundation, hardwood floors and finish, except tile floor for drug store; plate glass, steel ceilings, vacuum cleaner system, garbage burners, vapor heat, wiring, central heating plant for theater, stores and flat; fourteen baths and fourteen sun porches; pitch and gravel roof, skylight, galvanized cornice, telephones in flats, tile bath, gas stoves; day labor.

\*Peter J. Linhoff, architect, Germania Life, has prepared plans for a theater at Windom, Minn.; Redding & Straud, owners; 35x115, brick, seats for 600, cement and tile floors, hollow tile, ornamental plastering, composition roof, brick and stone front; iron Marquis; steam heat, three lavatories.

\*E. L. Masqueray, architect, is preparing plans for an addition to the Minneapolis Orphanage, Chicago and 49th st. S.; fireproof, 3-story, brick, \$40,000; plans ready in a month.

\*H. E. Erickson, architect, Union block, has prepared plans for a dwelling on Lombard and Vernon, for C. D. Staples, care of R. C. Cobb Co., 3d st.; frame, 2-story, 28x28, hot water heat, electric light, common plaster, corner beads, Pitcairn varnish, plate glass, tile bath, birch, oak and maple floors, oak finish, fireplace and French doors. Owner will be ready for bids in a week; cost, \$4,000.

Subcontracts on the Smyth Printing Co. building, 9th and Temperance include; structural iron let to St. Paul Foundry Co., Como av., reinforced bars to Corrugated Bar Co., Pioneer building, roofing to J. Haag Roofing & Cornice Co., 28 W. 3d st., plastering to William Poppenberger & Son, 735 York st., painting to J. Nelson & Son, 515 Robert st.

\*Bids for the general contract for the Cathedral parochial school awarded to Paul Steenberg, were: Lauer Bros., \$99,500; St. Paul Building Co., \$95,469; Hennessy & Co., \$10,978; Steenberg Co., \$92,900; Shuett & Forshee, \$98,600; D. E. O'Connell, \$103,178; Hoy Construction Co., \$99,606; Splady Albee & Smith, Minneapolis, \$103,300.

\*Thomas G. Holyoke, architect, Endicott building, is preparing plans for two large modern residences in St. Paul, owner's name withheld; one to be ready in week for figures,



# CONTRACTORS BONDS AND EMPLOYERS LIABILITY INSURANCE

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HILLSBORO, N. D.

### BIDS WANTED.

Church, Fort Dodge, Iowa.

Bids wanted and plans for M. E. Church to cost approximately eighty thousand dollars are complete and now ready for contractors. Bids to be opened about March 23. Five dollars deposit required for set of plans.

E. I. LEIGHTON,  
Chairman Building Committee,  
Fort Dodge, Iowa.

### BIDS ON THEATER WANTED.

Sioux City, Iowa.

Sealed proposals, directed to John Biegger, care of Colonial Theater, Sioux City, Iowa, and endorsed "Theater Building" will be received on or before the 17th day of March, 1914, at 4 o'clock, P. M., for the labor and material required in the erection and completion of the New Empress Theater and Office Building in Sioux City, Iowa, according to plans and specifications prepared by Joseph Schwarz, Archt., Sioux Falls, S. D.

Each bid is to be accompanied by a certified check of a sum equal to 2 per cent of the bid, and made payable to John Biegger.

Plans are on file at the office of the Colonial Theater, Sioux City, (5 sets) and at the Builders' Exchanges in St. Paul and Minneapolis.

Contractors desiring the loan of a set for their own use, can obtain same from the architect, upon a deposit of \$25.00.

## PROPOSAL ADVERTISING FOR BIDS.

one-half of which will be refunded upon the return of plans at the time of letting.

### NOTICE TO CONTRACTORS.

School, Cooperstown, N. D.

Sealed proposals will be received by the clerk of the Board of Education at Cooperstown, N. D., up to 1:30 P. M., of Friday, April 3, 1914, for the erection and completion of a school building, to-wit:

1st, for building complete, without heating and ventilating apparatus.

2nd, bids may be made separately, to-wit: (a) for material alone; (b) for labor alone.

Proposals for steam heating and ventilating apparatus will be received at the same time.

Plans and specifications may be seen after March 18th, with the clerk of the school board at Cooperstown, at the Fargo Builders' Exchange, and at the office of the Architects.

Each bid on the building, labor or material to be accompanied by a certified check for \$500.00, and each bid on heating and ventilating systems with a certified check for \$200.00, made payable to the clerk of the Board.

The checks of successful bidders will be forfeited to the school board should they fail to enter into contract and furnish satisfactory bonds, in accordance with state law, for the faithful execution of the work.

Bids must be plainly marked on the outside of envelope, "Sealed Bid for ....." (specifying for what part of work).

The right to reject any or all bids is reserved.

By order of the School Board,  
CHAS. BURSETH, President  
OSCAR D. PURINTON, Clerk.  
HANCOCK BROS., Architects.

### PAVEMENT, CURB, GUTTER BIDS WANTED.

Pella, Iowa.

Sealed bids will be received by the city of Pella, Iowa, for the construction of approximately 37,710 square yards

pavement and about 2,378 lineal feet combined curb and gutter. The pavement for which bids are called for to be of one of the following kinds, viz: 1. Portland Cement concrete. 2. Portland Cement concrete with a wearing surface of Dolarway Bitumen. 3. Vitrified Brick paving blocks. 4. Bitulithic pavement. 5. Asphaltic Concrete pavement. 6. Sheet Asphalt. To be constructed as specified in the plans and specifications which are on file in the office of the City Clerk. Bids for the above will be received by the City Clerk until 4 o'clock P. M., of the 18th day of March, 1914, each bid must be accompanied with a certified check, in a separate envelope, in amount, \$1,000.00 payable to the Treasurer of the City of Pella. Copy of specifications will be furnished to applicants upon receipt of \$5.00.

The City of Pella reserves the right to select the kind of pavement and to reject any or all bids.

A. C. KUYPER,  
City Clerk.

### NOTICE OF LETTING CONTRACT. State Road, Norman County, Ada, Minnesota.

Notice is hereby given that the County Board of Norman County, will on the 27th day of March, 1914, at 2 o'clock in the afternoon, receive bids for the construction of ten miles of state road No. 1, of Norman County.

Said work will be let in one contract, or in two separate contracts. For the grading of said road in one contract, and the graveling, furnishing and placing of culverts in one contract.

All bids to be filed with the County Auditor before March 27, 1914.

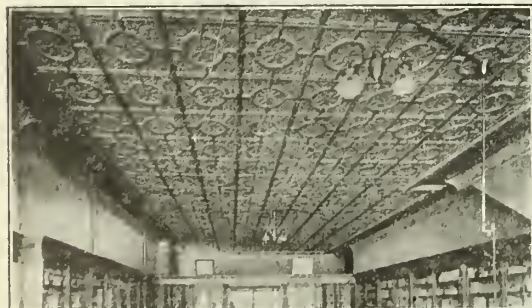
A certified check in the sum of 5 per cent of the contract price to accompany each bid.

The Board reserves the right to reject any and all bids.

Plans and specifications now on file in the County Auditor's office.

D. E. FULTON,  
County Auditor, Ada, Minn.

(Continued on page 18)



SEND US YOUR PLANS  
Our figures cost nothing, and  
YOU WILL SAVE MONEY

## Don't Make a Mistake!

You Can Buy the Best Sheet Metal Work

such as Cornices, Steel Ceilings, Skylights,  
Ventilators, Gutters, Ridgings, etc., etc.,

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ST. PAUL ROOFING, CORNICE  
and Ornament Co.  
ST. PAUL, MINN.



other in five weeks; one brick and stone, 34x62, 2-story, every modern convenience; the other all stone, 50x100, 2-story, every modern improvement.

\*Buechner & Orth, architects, Shubert building, may have plans out next week for the bank and office building at Grand Forks, of the Scandinavian American Bank and Trust Co. Contract for St. Alexius hospital, Bismarck, S. D., was awarded to A. C. Thomas, 430 Shubert building, St. Paul; to cost about \$115,000.

\*E. J. Donohue, architect, Gilfillan block, is making plans for a parochial school at Pierz, Minn.; Rev. J. G. Steigler; 8-room, 76x79, 2-story brick steam heat, all modern; plans ready about March 21, mechanical equipment later; owner will take figures; galvanized iron, structural, steel, cut stone trim.

Bids received until 11 a. m., March 24th, for material and construction of six cottage school buildings. Plans with secretary school inspectors, 80 Court House, and at St. Paul Builders' Exchange, Ryan Annex. Bond for 20 per cent of bid or check for 10 per cent.

\*Thomas G. Holyoke, architect, Endicott building, will have plans ready March 14, for remodeling the building at Robert and 3d, for trustees of Boston ground rent trust; glass and iron first floor, brick second story; new heating, plumbing and wiring; architect will take bids.

\*Monarch Studio, Shubert building, is taking bids on iron for the J. R. Romans theater at Virginia, Minn.; also on Marquis. Contract for terra cotta, Frellson & Son theater, Waukesha, Wis., let to Wisconsin Mantel & Tile Co., Milwaukee, Northwestern terra cotta.

\*Plain and ornamental plastering contract for the Arcade building, 7th st., was awarded to Wm. Poppenburg & Son, St. Paul, and marble, tile and terrazzo to Drake Marble & Tile Co., St. Paul. Buechner & Orth, architects, Shubert building.

\*H. E. Erickson, architect, Union block, has prepared plans for remodeling dwelling of Harris Fineberg, Cedar st., to a duplex; cost, \$5,000; architect taking figures; plumbing, heating, arch, porches, sideboards, art and leaded glass.

C. S. Frost, Chicago, architect of union station and Hill building for the Great Northern and Northern Pacific, has appointed Max Toltz, of Toltz Engineering Co., Pioneer building, engineer of steel construction on new station and he will act also as consulting engineer for Hill building.

\*H. E. Erickson, architect, Union block, has prepared plans for a residence, Grand and Pascal, for Geo. N. Kriha; frame, 2-story, 26x34, hot water heat, birch and oak floors and finish. Contract let to John Jevanouckos, 1091 Colne st.

Monarch Studios, Shubert building, report roofing contract, theater, Waukesha, Wis., let to H. W. Johns-Manville Co., iron to Modern Steel Structure Co., 71 Mason st., Milwaukee, Wis.; Geo. Frellson, owner, Waukesha.

\*E. L. Masqueray, architect, Endicott building, is preparing plans for a Catholic church, at Woonsocket, S. D., for St. Wilfred congregation, sketches made, \$40,000. Seats for 600; to be built this spring and summer.

Bids received until 11 a. m., March 24, for material and construction of heating and ventilating plant, Ames school. Bonds for 20 per cent or check for 10 per cent. A. E. Horn, president of board, 80 Court House.

Barber Asphalt Co. got the contract for paving Market st.; Case, York, Westminster, Portland and Holly, contract went to John Baker, Jr., Co. at \$19.50 a ton; Barber price on bid \$25.05 a ton, Trinidad asphalt.

Paul Steenberg, 1631 Laurel, got the contract for the parochial school at the cathedral. E. L. Masqueray, architect, Endicott building. Mr. Steenberg's bid was \$93,000. Four-story, brick, completely modern.

\*Rev. G. A. Hagstrum, 615 E. Jessamine, president Swedish Baptist Academy, St. Anthony Park, announces work will start in May on school in midway; cost, \$35,000; brick, 60x100, 2-story and basement.

Thomas G. Holyoke, Endicott building, architect, will have plans out for figures this week for the Mackey Thompson summer home at Delwood, White Bear Lake, frame, hot air heat; two brick mantels.

\*Work was started this week by Contractor Paul Steenberg, 1631 Laurel, on the warehouse of the Midway Lime & Cement Co., Marshall and Albert, to be completed and occupied by the company April 1.

Final plans for Hamline-Jefferson sewer system will be submitted to board of public works this week; to cost \$250,000; 11 miles; 9-inch to 6 feet; contract to be awarded within 30 days.

\*W. D. Lovell, 1415, 8th st., SE., Minneapolis, will build a 2-story, brick and tile dwelling, 29x36, on Branton, between Hendon and city limits; hot water heat, modern; cost \$6,500; 1-story garage.

\*Jesse Barnum, 858 Rice, will build a 2-story frame store and dwelling, 20x40, on Capitol Heights, between Valley and Mt. Airy; hardwood trim, plumbing and gas, plate glass front, \$2,400.

\*A. L. Garlough, architect, Rosen building, has made plans for a 1-story bungalow, frame, stucco, for Christian Hoffman, on Goodrich near Garfield, 26x40, hot water heat, modern.

\*H. A. Miller, architect, Pittsburgh building, reports contract let to H. Mulkenbur, 337 Forest, including all except electric, not let, for residence of Annie Eberhardt.

\*A. C. Thomas, general contractor, is in new and larger quarters, having removed downtown to suite 430 Shubert building, on account of increasing business.

Superintendent Gerlach of school buildings is advertising for bids for 4-room addition to Ramsey school. Plans by Mather & Burner, Pioneer building.

\*H. A. Miller, Pittsburgh building, is the architect of the Grossman flats. Through an error, C. A. Pear was mentioned as the architect, last week.

\*Buechner & Orth, architects, Shubert building, will furnish the plans for the extensive remodeling of the Carlings downtown restaurant.

\*Contract awarded for village library at White Bear to C. E. Davies, contractor, White Bear, at \$5,000; to be completed Sept. 1.

Richter Plumbing Co., 467 N. Snelling, was awarded the contract for the plumbing of the Union hospital, New Ulm; about \$5,700.

Steel contract on St. Paul Southern Electric Line will be let this week; Otto Bremer, Angus McLeod, on special committee.

Plans for the storage and repair buildings for water board, Hamline near Carroll, have been approved; to cost \$25,000.

Monarch Studios, Shubert building, is getting figures on subcontracts, theater, Cresco, Iowa.

\*A modern hotel may be built at 96-100 E. 5th, by Wm. Hamm; premises being vacated.

## MILWAUKEE, WIS.

Office: Hathaway Building. Telephone: Main 1827.  
Mail news to Minneapolis office not later than Wednesday.

### BUILDING PERMITS.

R. Hahn, 49th and Vine, flat.....	4,500
I. Fisher, 542 16th, rear, flat.....	1,000
J. Joffrey, Jr., 2030 Clybourn, garage.....	1,000
C. Wolff, 1724 Wells, apartments.....	10,000
G. Zimprich, 893 Holton, alterations.....	1,200
M. Brockmann, Frederick and Kenwood, dwl.....	7,500
F. Kaeding, 159 Lee, alterations.....	1,550
A. Wolters, 344 23d av., dwl.....	2,200
Sewerage Commission, Jones island, testing.....	1,000
J. Koeblich, Green Bay av., cottages, each.....	1,800
H. Tesch, 25th near Hopkins, flat.....	4,000
M. Conine, 25th s. of Burleigh, flat.....	4,453
J. Wanzer, 5326 Vine, cottage.....	1,500
E. Franke, 47th and Vliet, store.....	2,800

Architects Van Ryn & De Gelleke, Caswell block, are working on plans for an addition to the school building at 38th and Clark sts., and also the interior work for the new Riverside high school at Folsom place and Bartlett av.; both city of Milwaukee; Frank M. Harbach, secretary board of school directors. These architects have awarded the general contract for erecting the state normal school at River Falls, Wis., to Emil Sadlecheck; plans for heating, ventilating, plumbing, electrical work revised for new bids; to be 98x134, of brick; cost, \$110,000.

Architect Chas. H. Tharinger, 324 State st., is taking figures on three new structures; store and flat, at 48th st. and North av., for Mr. Ward, of brick veneer construction, 2-story and basement, 27x60, hot water heating, costing \$8,000; residence for F. W. Stark, at 58th st. and Grand av., 2-story and basement, 32x28, brick foundation, frame and stucco, furnace heating, costing \$4,200; duplex flat on 23d av., south of National av., for E. T. Saveland, frame construction, brick foundation, 26x52, hot water heating, costing \$6,000.

Architect John Paula, St. Francis, will take bids until Mar. 16, for erecting an addition to the postoffice building at Cudahy; plans on file at the postoffice; to be of cement block construction, 24x38, steam heating, composition roofing. The same architect is preparing plans for a public school building to be erected in district No. 6, St. Francis; to be of solid brick and stone construction, 2-story and basement, 26x51, concrete flooring, asbestos roofing, steam heating; bids in about a week; cost, \$7,000.

Architect John Roth, 428 Grand av., has awarded an apartment building for Mr. Holbright, at 27th and Galena sts., the following work. Carpenter, John Weber; plumbing and steam heating, Wenzel & Hensch; painting, A. Neubauer. The same architect has awarded in addition to previously reported contracts on store and flat building of Peter Schultz at Center and 27th sts., the following: Carpenter, Klippel & Artzberger; mason, August Niedling.

Architect Hugo V. Miller, M. & M. building, has awarded contracts on construction of the store and flat building for Rottman & Duckler, at 18th and Clybourn sts.; excavating, Sharping & Co.; mason, Robert Riesinger & Co.; concrete



**Employers' Liability Insurance  
Surety and Fidelity Bonds.**

## FRED L. GRAY COMPANY

THE LARGEST AGENCY OF ITS KIND  
IN THE NORTHWEST

More than 50,000 personal  
injury cases handled for  
contractors and others  
since 1892.

Security Bank Bldg.,

MINNEAPOLIS

### PROPOSAL ADVERTISING FOR BIDS

#### NOTICE FOR PROPOSALS.

##### Paving Indianola, Iowa.

W. A. Graves, City Clerk, will receive bids at his office in Indianola, Iowa, up to seven o'clock, P. M., Monday evening, March 23, for approximately 40,000 yards of paving to be laid on the streets and 4,100 yards in the alleys. Bids will be taken for the following kinds of pavement; 1st, Warren's Bitulithic; 2d, Asphaltic concrete; 3d, Sheet asphalt, under both Closed and open Specifications, and 4th, Portland Cement Concrete, both plain and reinforced, and also for approximately 32,000 feet of combined curb and gutter, and also for 32,000 feet of curb, 6x20-inch section, both to be built of Portland Cement Concrete, and also approximately 72

catch basins complete with cast inlets, and approximately 1,200 feet of sewer pipe, ranging from 8-inch to 24-inch in diameter. Plans may be seen at the office of the City Clerk or at the office of the Engineer, or will be mailed out to bidder.

A. H. GILLILAND, City Engineer.

Engineer in charge of the work.

#### NOTICE TO CONTRACTORS.

##### Church, Ryder, N. D.

Bids for Presbyterian Church Building will be received up to 8 o'clock, P. M., March, 23, 1914:

First. For Building Complete above basement.

Second. For all necessary Lumber, Lath, Brick, Wood Fiber, Plaster, Tar,

Felt Doors, Windows, etc., Brick for chimneys from Basement Floor.

Third. For all Hardware, Paint, Oil and Varnish.

Fourth. For all Carpenter work, Painting, Plastering, including chimneys all of above Basement. All according to plans and specifications now on file at office of B. A. Dickinson, Ryder, N. D.

The Board Reserves the Right to Reject any or all bids.

By order Board of Trustees.

A. C. O. LOMEN,  
Secretary.

#### NOTICE TO CONTRACTORS.

##### Water Mains, New Ulm, Minn.

Sealed bids will be received at the City Clerk's office, at New Ulm, Minnesota, up to 5 o'clock P. M., April 8, 1914, for furnishing all material and labor for the laying of 4,370 feet of 6-inch water mains, placing gates and hydrants on Seventh South Street from German to Washington Street, and on Broadway, State and Washington Streets, from Fifth South to Seventh South Street, all according to plans and specifications on file in the City Clerk's office. All bids are to be sealed and marked "Proposals for Water Mains," and accompanied by a certified check in the sum of 10 per cent of such bid, payable to the City Clerk, to be forfeited to said City in case the successful bidder fails to enter into contract and furnish satisfactory bond within three days after the acceptance of his bid. The City Council reserves the right to reject any or all bids. Dated New Ulm, Minn., March 6, 1914.

(Seal) ALBERT J. MEYER, City Clerk.  
F. D. MINIUM, City Engineer.

## The Modern Rock of Ages



"The standard by which all other makes are measured"

THE ATLAS PORTLAND CEMENT CO.

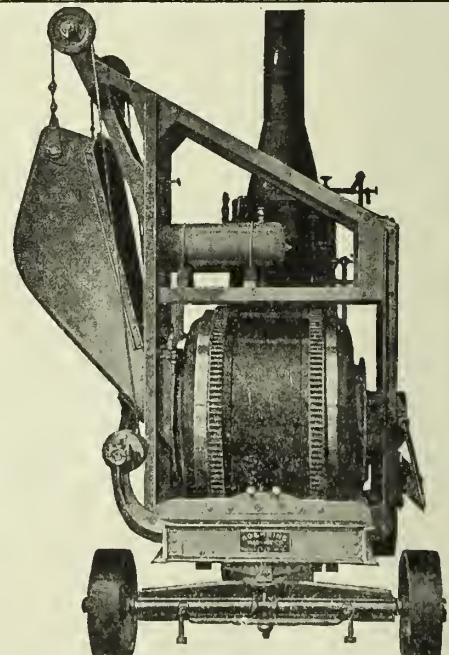
30 BROAD ST. NEW YORK

Corn Exchange Bank Bldg. Chicago, Ill.  
Morris Bldg. Philadelphia Pa. Plymouth Bldg. Minneapolis, Minn.

Productive capacity over  
— 30,000 barrels per day



Largest in the  
— the World —



### Why don't YOU use a Koehring "3 in 1" Mixer?

See These Machines, Four Different Sizes, Now In Stock, At Our Midway Warehouse.

Phone Us For Appointment Today. N. W. Main 330, T. S. Center 330. Get Our New Year's Guarantee.

### Koehring Machine Company

Milwaukee N. W. Branch Office, H. B. Jones, Dist. Mgr., Wisconsin  
349-351 Security Bank Bldg. Minneapolis



and cement, Northwestern Concrete Co.; plaster, H. J. Krause; iron work, Skobis Co.; plumbing, Thompson & Harriman; electrical, Co-operative Electric Co.; roofing, South Side Roofing Co.

Architect A. V. Wiskocil, 692 Island av., has awarded contracts on the duplex flat for Miss M. Brockman to be erected on Frederick av., between Linwood and Kenwood blvds.; carpenter, Aug. Hoffmeister; mason, Schianke; concrete and cement, Emil Barteck; plaster, Joe Karow; sheet metal, Ludwig Mertens; tile, Ormsby Mantel & Tile Co.; painting and glazing, Arnold Dusick; ornamental glass, Gavin Mirror & Art Glass Co.

Architect Alfred C. Clas, Abbot building, has completed plans for a warehouse and office building, 73x120, 2-story, brick and concrete; to be erected for the Watertown Grocery Co. at Watertown, Wis.; bids until March 25 at office of architect and also at office of H. G. Grube, Watertown; concrete, mason, cut stone, plastering, structural steel and iron, electrical work, steam heating, painting and gas fitting; cost, \$18,000.

William Trautman, 434 Dakota st., carpenter contractor, will take bids on the following work in connection with a duplex flat for Arthur Ziemer: Concrete and cement, plaster, plumbing, furnace heating, electrical work and painting; contracts awarded: Ernest Freise, masonry, lumber, South Side Lumber Co. and mill work to Badger Sash & Door Co.; to be 2-story and basement. 24x50, and cost \$5,100.

Architect Hugo V. Muer, M. & M. building, has completed plans for a store and apartment building to be erected at 125 Farwell av., for Mr. M. Frank; to be of brick construction. 2-story and basement, 24x60 and cost \$6,500. The same architect takes bids after March 12, for erecting a duplex flat for Mrs. A. Hahn at 6th st. and Auer av.; to be of frame construction, 26x56, and cost \$6,000.

Architect Edward Kozick, Alhambra building, has plans for an addition to the plant of the Gutsch Brewing Co., 10th st., between Wisconsin st. and New York av., Sheboygan, Wis.; bids close March 21, for constructing an underground tunnel, a fire wall and an addition to the raching room, 34x60, of solid brick; composition roofing, asphaltic mastic floors, refrigeration.

Architects Kamschulte & Webster, 403 Grand av., are preparing plans for a private school building to be erected at 23d st. and Grand av., for Lee Wells Myllard; to be 2-story and basement, 28x80; separate heating plant. The same architects are also planning a duplex flat to be erected on Bartlett av.; frame construction, 26x50, furnace heating.

Architect L. M. Gurda, 920 2d av., has completed plans and is now ready for bids on a store building at 5th av. and Mitchell st., for Vincent Strzempkowski; to be of solid brick construction, 2-story and basement, 45x84; vapor heating, plate, art and prism glass, oak and cypress finish; bids close March 25; cost, \$18,000.

## HEAD OF THE LAKES

Office: 206 Manhattan Building. Telephone: Auto 3036.  
Mail or telephone news not later than Wednesday.

### DULUTH.

#### BUILDING PERMITS.

Lakeside Land Co., frame dwl. between 57th and 58th avs.	
E. Krall, frame dwl., 114th av. W. near McGonagle.....	3,000
A. Peterson, two frame dwls., W. 2d st. near 22d av.....	1,000
Andrew Angvick, frame dwl., lot 230, Morningside Park....	5,000
Andrew Angvick, frame dwl., lot 230, Morningside Park....	1,000

\*Sketches are in progress by A. Terreyberry, 714 Palladio building, for a pavilion, (ladies' parlor, hall 30x40, gents' smoking room, kitchen, dining room and small residence in connection), 62x52; \$6,000. Owner, Chas. Chartie, Lakewood.

\*Commonwealth av., the site of the large purchase by Johnstown, Pa., capitalists, during the week, is to have a new vaudeville and moving picture house. Plans now are being prepared for William Cook, who also is building the large theater on the St. James hotel site in the downtown section of the city.

\*At a meeting of the Virginia school board the designs of Bray & Nystrop, architects, Duluth, were accepted for the proposed South Side school; brick and fireproof; cost, \$65,000.

\*A handsome residence is to be built in Crescent View Park this spring by Louis Dworschak. Plans by Vernon J. Price & Co., architects; will be ready for figures within two weeks.

\*Kelly & Williams, architects, have plans out for figures for a new moving picture show house and theater to be built at Cloquet, Minn., for E. L. Bedford; brick.

### SUPERIOR.

\*Improvements which will take the better part of 2 years and which will cost more than \$500,000, have been started by the Duluth & Superior Co. on the No. 5 dock at Superior. It

is planned to spend about \$150,000 this year in installing hoists and putting in concrete foundation. The capacity of the dock, which is 1,000,000 tons, will be doubled.

\*The statement is made that if the level of Lake Superior should be raised two feet by the construction of the proposed dam at the Soo, approximately \$1,000,000 damage would be done to holdings of the Northern Pacific alone in Superior and Duluth.

\*As soon as weather conditions will permit the Reiss Coal Co. will begin improvements to its dock to cost \$150,000. The dock will be increased 600 feet in length and 200 feet in width.

\*Plans are being considered by Carl Wirth, formerly of Superior and now of Fort William, Ont., for a building on his property on the north side of Broadway, between Tower and Ogden avs.

\*Contract will be let soon for a \$12,000 home for C. A. Swanson, at the southwest corner of Hughitt av. and 19th st.; it will be one of the fine residences of the city.

## OMAHA, NEB.

Mail news to Minneapolis office not later than Wednesday.

#### BUILDING PERMITS.

T. J. Swanson, 520 S. 35th st., frame dwl.....	3,000
Mr. Harrington, 24th av. and Fort st., brick theater .....	4,000
A. H. Olmstead, three frame dwls.....	6,500
E. H. Johnson, 3909 45th st., frame dwl.....	1,600
Frank L. McCoy, 3519-21 Dodge, brick dwl.....	1,600
People's Ice & Cold Storage Co., 19th and William, brick ice plant .....	7,000
Joseph Marek, 1236 S. 8th, frame dwl.....	45,000
H. F. Hamen, 2809-11 Leavenworth, brick.....	2,000
Ed. Phelan, 2132-4 Farnam st., brick garage.....	12,000
Imperial Investment Co., 1011-15 S. 10th st., alterations...	6,500
A. E. Seastedt, 3402 California st., frame dwl.....	2,000
Nels P. Peterson, 3908 Maple st., frame dwl.....	1,500
P. A. Welshaus, 419-21 S. 25th av., addition.....	2,500
James Neilson, 3183 Meredith av., frame dwl.....	2,000
N. J. Skogman & Sons, 3509 Cumby, frame dwl.....	1,800
Emil Halmstrom, 3429 Webster, frame dwl.....	3,500
T. C. Rich, 5437 Florence boul., frame dwl.....	2,500
Arthur Metz, 37th and Dewey av., brick dwl.....	3,000
A. C. Neilson, 2612 Binney, frame dwl.....	30,000
C. Henning, 3604 N. 44th av., frame dwl.....	1,800
Herman M. Nelson, 2417-19 Fort, frame dwl.....	2,000
G. W. Mitchell, 4412 Ruggles, frame dwl.....	1,900
Mrs. M. Kealing, 4427 Ruggles, frame dwl.....	1,200
Valentine Herck, 2532 S. 24th, frame dwl.....	1,200
H. Singer, 1016 Pacific, alterations.....	1,400
Rasp Bros., 3615 N. 19th, frame dwl.....	1,350
Fred J. Smith, 2306 Emmett, frame dwl.....	2,500
George A. Davies, 3515 N. 19th, frame dwl.....	2,000
Frank Podrouzek, 1704 S. 9th, frame dwl.....	2,500

\*Contract awarded to James Stewart & Son, St. Louis, \$198,700, for new United States National Bank building. W. H. Parrish, Omaha, bid \$202,738.

\*Plans for a 3-story business block, 16th and Cass, are being drawn. Sir Horace K. Plunkett, owner.

\*A. D. Brandeis plans a high-class modern apartment house in same block as Fontenelle hotel.

\*Hastings & Heyden will build two \$20,000 apartment houses. Alex Beck, contractor.

\*Work has started on Medics Fraternity House, and Phi Sigma Rho chapter house.

\*Judge McHugh and C. H. Pickens will build new modern residences.

## DES MOINES, IOWA

Bert N. Mills, Representative, 310 Hubbell Building.

\*Contracts for improvements at the state fair grounds were awarded by the state fair board this week as follows. subway under race track, Des Moines Engineering Co., \$6,043; cattle barn, J. E. Lovejoy, \$5,430; four new sections street railway entrance, Shorthill Co., \$2,600; cement walks around new Women's building, Louis J. Johnson and J. R. Potts, 8 7-8c a square foot. O. O. Smith is drawing plans for a new \$10,000 paddock which is to be erected this year. It will be 60x140, and will provide 25 stalls; all race entries will be called from this paddock.

\*Des Moines voters approved bond issues for two school building improvements this year and school board architects, Proudfoot & Rawson, will prepare plans for both; construction to begin as soon as possible; bids on the \$150,000 addition to North high school were opened for a second time this week.

The state board of education was scheduled to meet at Cedar Falls late this week, to decide upon the kind of a building to be erected there. Sentiment is believed to favor a vocational training building; Proudfoot & Rawson, Des Moines, will make the plans. The Iowa Fair also is making plans for new buildings at Iowa City and Ames. Bids are



## KEEP TALKING---LINO FEL T--"Between you and the weather"

If the cold of winter prevents you working on the outside, there is still time to save your customer money on his fuel bill by putting LINO FELT between or over the studding. This is **Inside** information. Talk to him about putting LINO FELT in the walls and roof of his home not only because he can save fuel in winter, but because LINO FELT keeps the heat out in summer, and the sound waves stop when they meet LINO FELT, insuring Comfort the year around.

**UNION FIBRE COMPANY, -:- WINONA, MINNESOTA**

### PROPOSAL ADVERTISING FOR BIDS

#### NOTICE TO CONTRACTORS.

School, Pequot, Minn.

General contract work, Plumbing, Heating and Ventilation of a Six-Room, Brick School Building.

Office of the Board of Education, Consolidated School District No. 41 of Pequot, Crow Wing County, Minnesota, March 7, 1914.

Proposals will be received at the above office by the Board of Education, at Pequot, Minnesota, up until the hour of 8:00 P. M., March 27, 1914, for the General Contract work and also for the Plumbing, Heating and Ventilating work of a six-room, brick school building. The bids will be opened by the above Board of Education at the hour of 8:00 P. M., March 28, 1914, but the bids must be filed with J. P. Bakken, Secretary of the Board, not later than March 27, 1914, at 8:00 P. M. Bids

must be in accordance with plans and specifications prepared by E. F. Broomhall, Architect, 710 Alworth Building, Duluth, Minnesota. Copies of plans may be obtained from the Architect by deposit of \$15.00, same to be returned on the date of letting, if a bona fide bid is filed and the plans and specifications returned. Copies of plans will be on file in the Builders' Exchange of St. Paul and Duluth, Minnesota, at the office of the Board and at the Architect's office.

Bids must be accompanied by a certified check in the sum of 3 per cent of the amount bid, made payable to Mr. Cloud, Treasurer, the same will be forfeited to the School District if the bidder fails to enter into contract and furnish satisfactory surety bond within five days after being notified of the acceptance of his bid.

Separate bids must be filed upon each

the General Contract work and upon the Plumbing, Heating and Ventilation.

The right is reserved to accept any or reject any or all bids.

By order of the Board of Education.

O. M. OLSEN, President.

J. P. BAKKEN, Secretary.

#### NOTICE TO CONTRACTORS.

Oil Tractors, Graders, Culverts, Pocahontas, Iowa.

The Board of Supervisors of Pocahontas County, Iowa, will receive sealed bids on Oil Tractors, Graders (10 and 12-foot blades), and Culverts (either cast iron or corrugated iron), at one o'clock P. M. on March 17, 1914. The Board reserves the right to reject any or all bids.

L. O'DONNELL,

County Auditor, Pocahontas, Iowa.

(Continued on page 21.)

## FREE HELP WANTED ADVERTISEMENTS

#### POSITION WANTED.

Responsible position wanted by a practical cut-stone man, 25 years' experience, as superintendent, foreman or partner, can give A 1 reference.

HUGO REICH,

Garson Quarry, Man., Canada.

#### POSITION WANTED.

Position wanted with Minneapolis or St. Paul general contractor. Employed as estimator at present. Graduate civil engineer. Can furnish good reference. G. E. Peterson, 4106 N. 18th st., Omaha, Neb.

#### POSITION WANTED.

As carpenter foreman. Am prepared to handle any class of building work; can manage men; understand plans and know material; will go in the country if desired; good recommendation. Care M. 14, Improvement Bulletin.

#### POSITION WANTED—MASON.

Competent mason foreman wants to hear from some contractor looking for a man experienced in handling work, mason or concrete. Southern Minnesota preferred.

E. C. PETERSON,

2721 Drake av.,  
Chicago, Ill.

#### AGENT WANTED.

A concrete mixer manufacturer, making one of the best mixers on the market, wants a good agent for the Northwest. For further information, call on W. F. Chapman, 912 Lumber Exchange, Minneapolis. Telephone, Main 3902.

..WANTED—Strictly Up-To-Date Furniture Specialties man as General Foreman. Must invest at least \$2,500, also machine men and cabinet-makers who must invest at least \$500, each. All investments absolutely secured. For further information Address, PACIFIC FURNITURE SPECIALTIES MFG. CO., INCORPORATED, 418-419 Lumber Exchange Building, Portland, Oregon.

#### ELECTRICAL.

Mont., Hardin—B. B. Blum of Forsythe has started work on the local electric light plant.

Mont., Helena—Council passed resolution creating special improvement district No. 80, providing for construction of a street electric lighting system; hearing April 6; D. J. McConnell, city clerk.

Mont., Judith Gap—Farmers' Telephone Co. organized, Samuel Higgs, president, to build a rural line east of town, farmers west of town are organizing a farmers' telephone company; for further information write Mayor H. S. Bills.

Mont., Lewistown—City Engineer Birkland has submitted his plans to council for an electric light system and work will soon begin.

Mont., Red Lodge—A vote will be taken April 6 on granting a street car franchise to the Red Lodge Electric Railway Co. A. J. Showalter, promoter; an election will soon be held at Bearcreek and Absarokee for the same purpose.

Mont., Scobey—Gus. Oie, Richard Coughlin and D. Bennett will install an electric light plant here.

Mont., Sidney—The Water Users Electric Co. is preparing to construct a telephone line to Lambert; Mr. Kemmis, president.

Mont., Wilsall—C. S. Hefferlin, a local man, contemplates the erection of an electric light plant here.

N. D., Devils Lake—E. W. Gilbertson is calling for bids on a complete electric lighting plant, 15 h. p. gasoline engine and 8 or 10 k. w. generator.

N. D., Ellendale—A franchise for a new electric light plant was given to I. L. Lucker of La Moure, N. D.

N. D., Lisbon—Farmers' Success Telephone Co., capital \$10,000; Carl Bliss and others incorporators.

N. D., Medina—Theo. Stramblad owner of the local telephone, will start work in spring on a line to Pettibone and the installation of an exchange at that place.

N. D., Minot—South Prairie Farmers' Telephone Co. incorporated; capital \$10,000; C. M. Christiansen.

S. D., Clearfield—Farmers' Telephone Co. organized and work will begin on line early in spring.

S. D., Dell Rapids—The Highland Rural Telephone Co. has been incorporated with a capital of \$2,000 by Peter A. Anderson, G. T. Bras and others.

S. D., Owanka—Business men of this place and New Underwood are organizing a stock company to build a telephone line between the two towns.

S. D., Parker—Election March 27, to vote on issuing bonds for installing a municipal electric light system.

Wis., Bayfield—The Municipal, Light, Power & Water Co., will purchase two direct currents 2,300 volt, 60 cycle also a motor driven pump and two switch boards.

Wis., Butternut—W. J. Schulze is considering enlarging the electric light plant and lighting the entire city. H. R. Wuerfel, Chicago, consulting engineer.

Wis., Clear Lake—E. J. Schneider of the Apple River Milling & Power Co., Amery, was granted an electric light franchise here.

Wis., Columbus—Hale Electric Co., incorporated with a capital of \$30,000; J. T. Hale, E. M. Hale and H. S. Hale.

Wis., Eau Claire—Preparations are under way for beginning work on the electric road to Altoona, by the Chippewa Valley Railway, Light & Power Co.

Wis., Fox Lake—Agitation has started for electric lights; Mr. West of Beaver Dam offers to build a transmission line to this place if a 5-year contract is given him.



## PROPOSAL ADVERTISING FOR BIDS

### NOTICE OF ADVERTISEMENT FOR LABOR AND MATERIALS REQUIRED IN THE CONSTRUCTION OF A REINFORCED CONCRETE CHIMNEY FOR THE CITY OF WARREN, MINNESOTA.

Notice is hereby given that until 6 o'clock on the 23d day of March, 1914, bids for labor and materials required in the construction of an 80-foot by 4-foot diameter reinforced concrete chimney for the electric light plant of the City of Warren, will be received according to the specifications, which are on file in the office of the City Recorder of said City of Warren, Minnesota, and also in the office of Earle D. Jackson, Consulting Engineer, St. Paul, Minn., and may be there examined and seen.

Each bid must be accompanied by a certified check for the sum of five (5%) per cent of the contract price, endorsed or made payable to the mayor of said City of Warren, as a guarantee that bidder will enter into contract for such work in case the same is awarded to him. In addition on award of contract, the successful bidder must furnish a bond for the full amount of the contract running to the City of Warren, and to continue in force for a period of five years from the date of acceptance of the work.

All bids must be strictly in conformity with the notice of bidders in the office of the city recorder and consulting engineer and must be made out on the bidding blanks furnished by the city recorder or the consulting engineer in connection with said specifications.

All bids shall be securely sealed in an envelope so that the same cannot be opened without breaking the seal and shall be addressed to the City Recorder of the City of Warren, and shall have marked across the face—"Bid for Concrete Chimney."

The consulting engineer reserves the right to make any minor changes in the specifications before the letting of the contract.

The right is reserved to reject any or all bids.

RASMUS HAGE,  
City Recorder,  
Warren, Minn.

Dated February 28, 1914.

### NOTICE TO CONTRACTORS.

School, La Porte, Minn.

General Contract work, Plumbing, Heating and Ventilation of a Consolidated School District.

Office of the Board of Education, Consolidated School District No. 43, of La Porte, Hubbard County, Minnesota, March 7, 1914.

Proposals will be received at the above office by the Board of Education, at La Porte, Minnesota, up until the hour of 8:00 P. M., March 26, 1914, for the General Contract work and also for the Plumbing, Heating and Ventilating work of consolidated school building. The bids will be opened by the above Board of Education at the hour of 8:00 P. M., March 27, 1914, but the bids must be filed with Elliott B. Scott, Secretary of the Board, not later than March 26, 1914, at 8:00 P. M. Bids must be in accordance with plans and specifications as prepared by E. F. Broomhall, Architect, 710 Alworth Building, Duluth, Minn. Copies of plans must be obtained from the Architect by deposit

of \$15.00, same to be returned on the date of letting, if a bona fide bid is filed and the plans and specifications returned. Copies of plans will be on file in the Builders' Exchange of St. Paul and Duluth, Minnesota, at the office of the Board and at the Architect's office.

Bids must be accompanied by a certified check in the sum of 3 per cent of the amount bid, made payable to Mr. C. H. Roman, Treasurer, the same will be forfeited to the School District if the bidder fails to enter into contract and furnish satisfactory surety bond within five days after being notified of the acceptance of his bid. Separate bids must be filed upon each the General Contract work and upon the Plumbing, Heating and Ventilation.

The right is reserved to accept any or reject any or all bids.

By order of the Board of Education.

C. M. DALLY, President.

ELLIOTT B. SCOTT, Secretary.

### NOTICE TO CONTRACTORS.

Sewer, New Ulm, Minn.

Sealed bids will be received at the City Clerk's office, at New Ulm, Minnesota, up to 5 o'clock, P. M., April 8, 1914, for furnishing all material and labor for the construction of Sewers on Broadway Street, from Fourth to Seventh South Street, Washington Street from First to Seventh South Street, and on Third South Street from State to Washington Street, all according to plans and specifications on file in said City Clerk's office. All bids are to be sealed and marked "Proposals for Broadway-Washington Street Sewer," and accompanied by a certified check in the sum of 10 per cent of such bid, made payable to the City Clerk, to be forfeited to said city as liquidated damages in case the successful bidder fails to enter into contract and furnish satisfactory bond within three days after the acceptance of his bid.

The City Council reserves the right to reject any or all bids.

Dated New Ulm, Minn., March 6, 1914.

(Seal) ALBERT J. MEYER, City Clerk.  
F. D. MINIUM, City Engineer.

### NOTICE TO ROAD CONTRACTORS.

Walker, Minn.

Sealed proposals will be received at the office of the County Auditor of the County of Cass, State of Minnesota, at the Court House in the village of Walker, until 2 o'clock P. M., Saturday, March 28, 1914, for constructing State Rural Highway No. 45, in township 143, ranges 25, 26, 27 and 28, Cass County, Minnesota.

The highway will be 23.6 miles long, will comprise:

52.25 acres of clearing,  
104.85 acres of grubbing,  
27,223 cubic yards of grading,  
10.25 miles of turnpiking,  
50,873 cubic yards of ditching,  
20,031 cubic yards of surfacing,  
2 box culverts.

Complete plans and specifications of said highway may be seen at the above named office, at the office of the State Highway Commission, at the Stanton Hotel, Federal Dam, Minnesota, which is the westerly terminus of the highway, and at office of Engineer in charge. Each proposal must be accompanied by a certified check for not less than 10 per cent of the amount bid, made payable to the County Auditor, of said

Cass County, as evidence of the good faith of the bidder and as a guarantee that the bidder if successful will enter into contract and furnish the required bond. All bids must be made on blank forms which will be furnished by the engineer in charge. Bids will be received on the whole job or on one or more sections. The right is reserved to reject any or all bids.

I. P. BYHRE,  
County Auditor, Cass County, Minn.  
GEORGE A. RALPH,  
Engineer in Charge,  
380 Shubert Bldg., St. Paul, Minn.

### PROPOSALS WANTED.

Highway, Plankinton, S. D.

The undersigned hereby gives notice that sealed proposals for the erection of thirteen and three-quarters miles of highway to be built in Aurora County, S. D., will be received by the County Auditor of Aurora County in Plankinton, until the hour of 2:00 P. M., on the 8th day of April, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by the Dakota Engineering Co., of Mitchell, S. D., which may be seen at the office of the County Auditor in Plankinton.

A certified check for \$100.00, payable to the order of the County Treasurer, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed) M. H. GRIFFIN,  
Chairman.

ERLAND JOHNSON,  
County Auditor.

Plankinton, S. D.  
March 5, 1914.

### NOTICE TO CONTRACTORS.

Street Grading, New Ulm, Minn.

Sealed bids will be received by the City Clerk, at New Ulm, Minnesota, up to 5 o'clock P. M., April 8, 1914, at his office in said city for the furnishing of all material, tools and labor necessary for grading, graveling and boulevarding of Seventh South Street from German to Washington Streets, Broadway Street from Fifth South to Seventh South Street, State Street from Sixth South to Seventh South Street, Washington Street from Fifth South to Seventh South Street, to be let in four separate contracts, all according to plans and specifications on file in the City Clerk's office.

All bids must be sealed and marked "Proposals for Grading either of above named streets," and be accompanied by a certified check in the amount of 5 per cent of the bid, made payable to the City Clerk, to be forfeited to the City as liquidated damages in case the successful bidder fails to enter into contract and furnish satisfactory bond within three days after the acceptance of his bid.

The City Council reserves the right to reject any or all bids.

Dated New Ulm, Minn., March 6, 1914.

(Seal) ALBERT J. MEYER, City Clerk.  
F. D. MINIUM, City Engineer.

(Continued on page 23.)



# AMERICAN BRIDGE COMPANY OF NEW YORK

**B**UILDERS of steel structures of all kinds, including mining and manufacturing buildings, power plants, towers and tanks, bridges and viaducts, turntables for locomotives and automobiles, roofs, trusses, girders and steel frames for business buildings.

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Estimates will be gladly furnished and all inquiries will receive careful attention.

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Expanded Metal Lath for Plastering Purposes  
Metal Studding, Furring Strips, Etc.  
for Use with Expanded Metal Lath.  
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## PROPOSAL ADVERTISING FOR BIDS

### NOTICE TO CONTRACTORS.

Road, Princeton, Minn.

Notice is hereby given that sealed bids will be received at the office of the county auditor of Mille Lacs county at the court house in the village of Princeton, Minnesota, until 12 o'clock a. m., March 24, 1914, for building state road No. 1 in said county from the quarter corner between sections 27 and 28, township 42, range 26, thence south approximately ten miles to quarter corner between sections 19 and 20, township 40, range 26, said piece of road being in the towns of South Harbor (township 42, range 26), Onamia (township 41, range 26), and Hayland (township 40, range 26), in the county of Mille Lacs, state of Minnesota.

Said work consists of clearing, grubbing, grading, turnpiking, ditching and culverts, and bids will be accepted on complete job or separately on either five mile section thereof, and either with or without culverts.

Plans, profiles, and specifications may be seen at the above named office, or at the office of the state highway commission at St. Paul, on or after March 10, 1914.

Each proposal must be accompanied by cash or a certified check for not less than 5 per cent of the amount of the bid, payable to the county treasurer of said Mille Lacs county. All bids must be upon the blank forms furnished by the undersigned.

The board reserves the right to accept or reject any proposal.

W. C. DOANE,

County Auditor, Mille Lacs County,  
Princeton, Minnesota.

### NOTICE FOR BIDS.

Bridge, Chaska, Minn.

Sealed proposals for the construction of reinforced concrete approaches to the Minnesota river bridge at Chaska, will be received by the City Council, of the City of Chaska, Minnesota, until Monday, April 13, 1914, at 8 P. M. Plans and specifications may be seen at the office of the City Clerk. A certified check to the amount of 5 per cent of the bid must be enclosed with each proposal. Council reserves the right to reject any or all bids. By order of the City Council.

Dated at Chaska this 10th day of March, 1914.

J. M. ARETZ, City Clerk.

### PROPOSAL FOR ELECTRIC RAILWAY.

Thief River Falls, Minn.

Sealed proposals for the grading, track laying, and surfacing of 20 miles of single track railway will be received by the undersigned until 12 o'clock, noon, of the 2d day of April, 1914.

Plans, specifications and blank forms of proposals and contracts may be obtained from the Company upon the payment of \$2.00. Each proposal to be accompanied by a certified check for \$1,000.00, made payable to the Treasurer of the Company, as a guarantee that if proposal is accepted, contract will be entered into. The Company reserves the right to reject any or all bids. Other information on application.

Minnesota Northwestern Electric Ry. Co., Thief River Falls, Minnesota.

Yours very truly,

H. W. PROTZELLER,

Secretary and General Manager.

### NOTICE TO DITCH CONTRACTORS.

Advertisement For Bids.

Office of the County Auditor, Itasca County, Minnesota.

Grand Rapids, Minn.,

March 3, 1914

Notice is hereby given, that sealed proposals or bids will be received at the office of the County Auditor of Itasca County, Minnesota, at the Village of Grand Rapids, until three o'clock P. M. on the 27th day of March, 1914, for the construction of Itasca County Judicial Ditch No. 2, located in Itasca County, Minnesota, at which time and place, or such time or times as said auditor may then adjourn said letting to, the contract for said construction will be let to the lowest responsible bidder.

Said construction involves:  
469,001.6 cubic yards excavation, estimated at 12c.... \$56,280.19  
39 box culverts, estimated at \$40 each, and one bridge estimated at \$100..... 1,660.00  
Clearing right of way, 200 acres at \$20..... 4,000.00  
Leveling roadway, 34½ miles, estimated at \$100 per mile. 3,450.00  
54 corrugated metal culverts, at least 15 inches in diameter and 30 feet long..... 1,890.00

Total estimated cost of construction work ..... \$67,280.19

This work is situated from nine to twelve miles from Green Rock, on the Great Northern Railway line, and from sixteen to twenty miles from the Village of Taconite, both in Itasca County, Minnesota.

Proposals or bids are invited for said work as one job, and also for any one or more of the sections thereof, or any one or more of the construction jobs. Each proposal or bid must be accompanied by a certified check, payable to M. A. Spang, County Auditor, for not less than ten per cent of the amount thereof.

The right to reject any and all bids or proposals is reserved.

For particulars address: Pierre X. Weimerskirch, Engineer in charge, 380 Shubert Building, St. Paul, Minn., or M. A. Spang, County Auditor of Itasca County, Grand Rapids, Minnesota.

### PROPOSALS WANTED.

Parsonage, Kranzburg, S. D.

Sealed bids will be received for the erection of a two story brick residence for the Catholic Congregation of Kranzburg, So. Dak., in accordance with plans and specifications prepared by M. A. Hockman, architect, of Watertown, S. D. Bids will be opened April 1, 1914. All bids must be accompanied by a certified check for 2 per cent of the bid. Plans and specifications may be seen at the office of Rev. Jos. Zimmermann at Kranzburg, S. D. or at the Office of the architect.

The committee reserves the right to reject any and all bids.  
REV. JOS. ZIMMERMANN, Kranzburg, S. D.

Wanted—Position Traveling and Selling any kind of Building Material. Know them all and can estimate quantities from plans correctly.

SALESMAN.

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Minneapolis, Minn.

### NOTICE TO CONTRACTORS.

Cells, Etc., Jail, Staples, Minn.

Notice is hereby given, that sealed bids will be received by the City Council of the city of Staples, Minnesota, on the 24th day of March, 1914, at 8 o'clock, P. M., for the construction and installation of cells complete, and for the construction and delivery for installation of the window guards, screens and jail doors, for the new jail to be constructed in the said City of Staples, Minnesota.

All bids must be accompanied by a certified check for 10 per cent of the amount bid.

Said work and installation to be done in accordance with the plans and specifications now on file in the office of the undersigned.

The City of Staples reserves the right to reject any or all bids.

Dated at Staples, Minnesota, March 11, 1914.

F. W. FINDSEN, City Clerk.

### PROPOSALS WANTED.

Creamery, Loretto, Minn.

The undersigned hereby gives notice that sealed proposals for the erection of a Creamery at Loretto, Minn., including all labor and material, will be received by the Loretto Progressive Creamery Assn., until the hour of 1 p. m., on the thirteenth day of April, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by H. E. Swanson, of Dassel, Minn., which may be seen at the office of the Improvement Bulletin on and after March 16, 1914, and may also be seen on application to State Bank of Loretto, Minn.

The Building to be complete by September the 15th, 1914.

A certified check for \$300, payable to the order of Loretto Progressive Creamery Assn., must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the sum of the amount of the bid for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed) HENRY SCHUMACHER,

President.

Loretto, Minn.

Place, Loretto, Minn.

Date, March 11, 1914.

## Want Ads Special Notices

### FOR SALE—NEOSTYLE.

Good Rotary Neostyle, in first class condition, for sale cheap. One of the best machines made for getting out circular letters. Call or write W. F. Chapman, 912 Lumber Exchange, Minneapolis; N. W. Tel. Main 3902.

### FOR SALE.

Eureka Continuous Concrete Mixer, 8 to 15 yards hourly capacity, slightly used, A-1 shape, complete with 3½-horsepower New-Way Air Cooled Gasoline Engine, Rotary Pump, etc. Outfit mounted on set of metal trucks for convenience in moving. A bargain at \$250.00. See it at Port Huron Machinery Co., 414 1st st. N.



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Manufacturers of Common and Hollow Brick, Hollow Building Blocks,  
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WE ALSO MANUFACTURE THE INFINITEX SILO BLOCK



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Sizes 4 to 24 inch. Name on every piece.

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616 Ryan Bldg., St. Paul, Minn.

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The architects, engineers, owners, officials, con-  
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Do you see the point?

## HEBRON BRICK

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NO. DAK.



to be asked early this summer and it is hoped work will begin before fall.

\*Members of the engineering club at the state university at Iowa City have designed the heating, lighting and ventilating system for a fraternity house which the club will erect this year at a cost of \$15,000; W. A. Warren of West Liberty has the contract work is to be completed Sept. 1.

The Younglove Construction Co., of Sioux City, has a \$5,000. contract for a new grain elevator, 18,000 bushels capacity, to be built at Wellsburg for John Tjaden & Son. The same company will repair the building of the Farmers' Elevator Co. at Hull.

\*Directors of the Marshall County Fair, Marshalltown, announce plans for a large poultry and swine display building to be built before the fair this year.

\*Members of the Masonic fraternity at West Liberty, Mt. Calvary lodge No. 95, have voted to sell their present temple and build a new one; trustees will handle the business and secure plans.

\*Unofficial estimates are that buildings on the new state epileptic farm at Woodward will cost nearly \$1,000,000; appropriations will be made at the next session of the legislature

\*The lumber firm of Ericson and Britson at Story City has sold out to Barbour & Matheer who are moving there from New Sharon.

## SIoux CITY, IOWA

Sioux City Office: 310 Iowa Building; R. V. Sager, Representative.

### BUILDING PERMITS.

Celia A. Taylor, house, Crescent Park add.....	1,000
Andrew Kruitthoff, house, Peirce add.....	2,000
Andrew Kruitthoff, frame dwl., Pierce's add.....	2,000
H. Hoy & Benson, two frame dwls., Vine Place add.....	4,000
J. H. McLean, tile addition to building, S. C. East add.....	5,000
E. Ritzk, frame dwl., Larimer's add.....	3,000
Daisy Crookham, frame dwl., Larimer's M. S. add.....	3,000
Axel Sunde, frame dwl., Pierce's add.....	3,000

The John J. Keefe Co. has been awarded the contract for remodeling the building at 509-11 Nebraska st. to cost approximately \$15,000. The building when completed will be used as a variety theater. There will be 2 store rooms on the ground floor.

H. M. Herman, 310 Iowa building, will erect a frame dwelling at 820 20th st. in the near future. It will be 2-story and basement, 6 rooms and thoroughly modern; cost about \$3,000.

The board of county supervisors will probably let contracts today for the construction of 31 concrete bridges to be built in Woodbury county. The estimated cost will be \$30,000.

The board of education at Elk Point, S. D., has changed the date of taking bids for the school house to be erected there to March 24.

The time of taking bids for the school at Maskell, Neb., has been changed to March 16.

## WINNIPEG, MAN.

### Notes Arranged Alphabetically by States.

The following building permits were issued: W. A. Cameron, dwelling, on Grosvenor av., \$11,000; A. McCormick, frame factory, on Clifton st., \$1,400; two dwellings for A. Ellstrom, Martin st., \$5,000; Westminster Investment Co., residence, \$4,000; Pioneer Construction Co., apartment block, \$40,000; A. P. Johansson, apartment block, Maryland st., \$65,000; P. H. Lectzier, brick bakery, King and Dufferin av., \$8,000; E. L. Evans, store and dwelling, Bannerman and McGregor, \$7,500; C. W. Leard, 4 dwellings, Harrison, \$7,000; W. A. Clarke, dwelling, \$3,000; Merchants' Bank, addition, \$3,000; J. Adelman, dwelling, \$2,100; P. Dotard, dwelling, \$3,500; A. Scalena, addition to store, Strathcona and Wolover, \$2,000; J. H. Ballantyne Co., metal storehouse, Wall st., \$1,000; R. Morris, dwelling, Lorett av., \$1,000; J. McDiarmid Co., brick office building, Ross and Arlington, \$1,700.

The following buildings are prospected for 1914: 10 apartment blocks, \$50,000 each; D. Abramovitch, architect; Olympia cafe, 4-story extended to 12 stories; tenders will be called soon; B. G. Fonseca, of Wolseley hotel, has plans for 7-story business block; Royal Alexander hotel, addition; Leland hotel, new structure; W. D. McBean, apartment block, Wellington Crescent, \$200,000; contract not yet let; Cohen & Shackleton, \$70,000 apartment block, Jessie av.; three new public schools, J. B. Mitchell, school commissioner.

The following apartment blocks will be erected: T. Hanson, Home st., to cost \$25,000; one for International Investment Co., on Mulvey st., to cost \$60,000; one for A. S. Knight,

on Chestnut st., to cost \$37,000; Walley Construction Co., on McMillan av., cost \$24,000; one on Maryland st., for Albert Johnson, to cost \$65,000; one for Goodman & Benson, on Victor st., to cost \$35,000; one on Young st., for Superior Building Co., cost \$60,000; one for Daykin & Scott Construction Co., cost \$80,000; one for S. A. Sigurdson & Co., on Langside st., costing \$90,000.

Tenders are wanted to March 19, by J. Desourdis, secretary-treasurer, rural municipality of St. Vital, Grand Vital, P. O., Man., for various trades required in the erection and completion of a fire station and police station for St. Vital.

Tenders will shortly be called by medical health department for erection of a residence to cost \$10,000, for medical superintendent, of infectious diseases hospital; plans are now being prepared.

Tenders are wanted to March 25, by M. Blankstein, architect, 450 Dufferin av., city, for erection of two stores and a brick residence, Mrs. R. Diner is the owner.

The Canadian Steel Pipe Co. were awarded contract for steel pipe to cost \$130,000; the Hurst Engineering Co. will lay the pipe, their bid being \$51,720.

Tenders are wanted to April 4, by Frank Ness, clerk, rural municipality of Assinaboia, Kirkfield Park, P. O., Man., for water pipes, hydrants with valves.

Tenders are wanted to April 4, by Frank Ness, clerk, rural municipality of Assinaboia, Kirkfield Park, P. O., Man., for laying and fixing water pipes.

Tenders are wanted to March 17, by Frank Ness, clerk, rural municipality of Assinaboia, Kirkfield Park, P. O., Man., for construction of sewer.

T. A. Davidson took out a permit to erect residence on Sherburn st., near Ellice av., to cost \$5,000.

Tenders are wanted to March 16, by chairman, board of control, Winnipeg, for supply of field rivets.

Tenders are being asked for by clerk, St. Boniface, Man., for plank and wooden block pavements.

The Progress Construction Co. were awarded contract to construct St. Boniface plank sidewalks.

## FARGO, NO. DAK.

Mail or telephone news not later than Wednesday.

\*Idelkope Bros., Fargo, will build a 2-story store in Fargo; 25x104; cost, \$12,000. Hancock Bros., architects, Fargo. Bids close March 17.

\*Date for the bank letting at Sheyenne, N. D., is set for April 4; Bemidji hotel, April 11.

## STREET AND ROAD WORK

### Notes Arranged Alphabetically by States.

**Ida., Sandpoint**—The council has passed a preliminary paving ordinance for parts of 1st and 2d avs., Main, Church, Pine and Bridge sts., at an estimated cost of \$80,000.

**Iowa, Bloomfield**—The city will pave eight blocks and an alley this year; address city clerk.

**Iowa, Cedar Rapids**—The city railway company will pave Grand av.; Richard Schaddelee, president.

**Iowa, Waterloo**—The property owners are demanding the paving with concrete of the residential section of Chautauqua park; the council is favorable.

**Minn., Duluth**—Ordinances were given their first reading appropriating \$875 for a portable rock crusher and \$5,000 for lumber for maintenance purposes of the works division were given their first reading.

**Minn., International Falls**—A petition has been filed for the construction of a state rural highway in Koochiching county, designated as No. 5; L. H. Slocum, county auditor; hearing will be held April 2.

**Minn., Mankato**—Bids are to be advertised for on the proposed paving of 4th, Washington, Plum, Mulberry and Main sts., the council having so ordered at a recent meeting; address city clerk.

**Minn., Mankato**—B. M. Gallagher, district engineer of the state highway commission has finished plans and is preparing estimates for the grading of four miles of the Janesville road, south of Madison Lake. Bids will be advertised for some time next month.

**Minn., New Ulm**—A committee has been appointed to get figures in full as well as all other information needed on the proposed paving. Wm. Eibner being made chairman of the committee. City Engineer Minium has given figures on the proposed paving approximately as follows: Creosoted wood blocks, \$2.30 per square yard; brick, \$2.10; asphaltic concrete, \$1.60; concrete, \$1.25.

**Minn., Winona**—Plans and specifications submitted by



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City Engineer H. B. Walling for improvement of road from Sugar Loaf to entrance to Pleasant Valley. Mr. Walling estimates cost of paving of 2,850 feet with brick to be \$9,186.54, and with concrete, \$7,401.80.

**Minn., Winona**—Figures submitted on completing unfinished state highway contracts by county board: Fielding & Shepley, St. Paul, all figures brick finish, No. 1, \$44,300; No. 2, \$1,980; No. 3, \$48,300; Turner Implement Co., Des Moines, Iowa, all figures for brick, No. 1, \$43,906, No. 3, \$46,941. C. H. Atkinson Paving Co., Watertown, S. D., all figures for concrete, No. 1, \$44,207; No. 3, \$49,239. Hanlon & Oakes, Sioux City, Iowa, No. 1, brick, \$44,250; concrete, \$44,250; No. 3, brick, \$47,770; concrete, \$48,250.

**Mo., Webster Grove**—R. L. Monk, city engineer, reports that contract will be let in a few months for 12,000 square yards of concrete paving.

**Neb., Kearney**—Bidders for the paving proposed here were as follows: J. E. Doty of David City, A. T. Sears of Fremont, Midwest Engineering Co., of Omaha, Berger Construction Co., of Hastings, Young Brothers of St. Joe, John A. Beebe of Omaha, O. G. Chapin of Kansas City, Dan Quinton of Kearney and S. Friedman of Omaha. All rejected.

**Wis., Janesville**—The city council has decided on paving St. Lawrence av. with asphaltic macadam, also gutters and curbing; Garfield av., from Racine to Clark st., will be paved, and also some other streets. Address city clerk.

**Wis., Neenah**—Citizens of Neenah and Menasha have voted for a reinforced concrete pavement on Nicollet av., 60 feet wide, with a center parking 20 feet wide, the cost being estimated on a basis of \$2 for reinforced concrete, \$2.66 for brick and \$3.25 for creosoted blocks. Address city clerk. Said to be the largest engineering feat ever undertaken by the twin cities.

**Wis., Oshkosh**—The board of public works expects to advertise soon for bids for the construction of pavements on a number of streets, asking for figures on each of several kinds of materials for the wearing surface.

**Wis., Portage**—The city council has decided on paving on portions of DeWitt, Oneida, Cass and Wisconsin sts., to be of either vitrified brick, concrete or asphaltic macadam; curb will also be put in on both sides of said streets. W. B. Washburn, city clerk.

#### BIDS WANTED.

**B. C., Victoria**—City Engineer Rust will call for bids at once for the construction of a municipal paving plant which is estimated to cost about \$22,000; by-laws have been passed for about 250,000 square yards of paving for this summer. Mr. Rust, favors a semi-portable type of paving plant.

**Iowa, Bloomfield**—Bids received by A. B. Welch, city clerk, until 8 p. m., March 23, for pavement curb and gutter improvements on North st., Locust st., Washington st., etc., in all 2,480 square yards, 18-foot pavement, 535 square yards alley pavement, 5,295 square yards, 24-foot pavement, 3,970 lineal feet curb, 3,080 lineal feet false or header gutter, 810 cubic yards extra grading; check for \$1,500.

**Iowa, Boone**—Bids received by Otto Hile, city clerk, until 7.30 p. m., March 27, for 10,000 square yards of paving with vitrified brick, sheet asphalt, asphaltic concrete and concrete paving materials laid on concrete foundation, or any of them, on Story, 9th and Keeler sts., check for \$500 with bid and contractor to give bond for \$12,000, contractor to guarantee to remain in good repair for five years. Also, at same time, for paving and curbing on Greene, 6th, Marshall, 4th, Benton, Crawford, Carroll, 8th, 12th, Tama, W. 2d, Monona and 7th sts., in all 61,000 square yards paving and 16,000 lineal feet curbing, the material for paving to be vitrified paving brick, sheet asphalt, asphaltic concrete and concrete paving materials laid on concrete foundation, or any one of them, and by curbing on each side thereof where necessary; said curbing to be composed of concrete; check for \$1,000 with bid and bond of contractor in the sum of \$65,000, with a five years' guarantee.

**Iowa, Marion**—Bids have been ordered to be advertised for on curbing on the streets which are to be paved. Address city clerk.

**Iowa, Missouri**—Bids are being received by S. R. Williams, city clerk, on 24,000 yards paving; Bruce & Standeven, engineers, 430 Bee building, Omaha.

**Iowa, Pella**—Paving work amounts to 37,710 square yards, not 3,710 as stated erroneously in the official advertisement last week. See official advertisement, The Improvement Bulletin, this week.

**Minn., Canby**—Bids are wanted at once by Joe Sampson, Sioux Falls, S. D., for 70,000 yards of grading, machine work and \$25,000 yards of road graveling at Canby, Minn.

**Minn., Chaska**—Bids received by J. M. Aretz, city clerk, until 8 p. m., April 13, for reinforced concrete approaches to the Minnesota river bridge here; check for 5 per cent; officially advertised in this issue of the Improvement Bulletin.

**Minn., Duluth**—Bids received by C. S. Palmer, clerk of the city of Duluth, until 10 a. m., March 20, for 30,000 square

yards vitrified paving block, 5,400 barrels cement, 4,000 cubic yards sand, 4,000 cubic yards crushed stone or gravel, 30,000 square yards creosote block, 10 ton pitch or creosote filler for brick, 85 ton asphalt filler for creosote block. Certified check for 10 per cent.

**Minn., Elk River**—Bids received by Chas. E. Swanson, auditor of Sherburne county, until noon, March 20, for the building and repairing of state road No. 1, in the town of Elk River, No. 1 in the town of Big Lake, No. 2, in the town of Livonia, the work to consist of grading, turnpiking, grubbing and graveling; check for 5 per cent.

**Minn., New Ulm**—Bids received by Albert J. Meyer, city clerk, until 5 p. m., April 8, for grading, graveling and boulevarding, to be let in four separate contracts; checks for 5 per cent; officially advertised in this issue of the Improvement Bulletin.

**Minn., Princeton**—Bids received by W. C. Doane, auditor of Mille Lacs county, until noon, March 24, for building state road No. 1, approximately 10 miles long, comprising clearing, grubbing, grading, turnpiking, ditching and culverts; check for 5 per cent; officially advertised in this issue of the Improvement Bulletin.

**Minn., St. Paul**—Bids received by Oscar Claussen, commissioner of public works, until 5 p. m., March 17, for one 14 cubic foot street paving concrete mixer, one 20 to 22 cubic foot street paving concrete mixer, one 10 to 12 cubic foot curb concrete mixer; also at same time for a new or second hand  $\frac{3}{4}$ -yard dipper steam shovel; also, at same time, for furnishing a 400,000-pound four-screw combined compressor-transverse and tensile testing machine complete with accessories and attachments, and a cold bend testing machine with capacity for bending steel bars two and one-half inches in thickness or under, complete with accessories; also, at same time for one 8-ton tandem road roller, one 5 or 6-ton tandem road roller; one 10-ton 3-wheeled road roller; also at same time, for two square street washing machines; check for 10 per cent with each bid.

**Minn., Walker**—Bids received by I. P. Byhre, auditor of Cass county, until 2 p. m., March 28, for rural highway No. 45, cass county, to be 23.6 miles long, and requiring clearing, grubbing, grading, turnpiking, ditching, surfacing and culverts; check for 10 per cent; officially advertised in this issue of the Improvement Bulletin.

**Mont., Bozeman**—Bids received by A. M. Brandenburg, city clerk, until 5 p. m., March 19, for the construction of pavements and storm sewers, in special improvement district No. 74, approximately 11,175 square yards of standard bitulithic pavement on a block base, 2,200 cubic yards excavation, 925 lineal feet of 18-inch storm sewers with manholes, inlets and catch basins complete; instructions to bidders, plans and specifications and blank forms of proposals, on the payment of two dollars (\$2.00), refunded when returned.

**Mont., Butte**—Bids received by W. A. Willis, city clerk, until 5 p. m., March 18, for bitulithic on asphaltic concrete paving and curbing on E. Park st.; check for 10 per cent.

**N. D., Bathgate**—Bids received by J. J. Auger, city auditor, until 4 p. m., April 1, for building sidewalks in the city of Bathgate for the ensuing year; check for \$50.

**N. D., Bowman**—Bids received by E. R. Fairbanks, auditor of Bowman county, until April 6, for grading two roads; checks for \$50 and \$75, respectively.

**S. D., McLaughlin**—Bids received by Ralph E. Smith, county auditor, until 2 p. m., April 7, for grading on the Yellowstone trail, divided into four sections, bids are to call for an amount demanded per mile for crowning road, excavating per cubic yard dirt, excavating per cubic yard loose rock, excavating per cubic yard solid rock, specifications for crown work on file in auditor's office. A satisfactory bond to be furnished by successful bidders, time limit, Nov. 1, 1914; certified check of \$200.

**S. D., Plankinton**—Bids received by Erland Johnson, auditor of Aurora county, until 2 p. m., April 8, for the construction of 13 $\frac{3}{4}$  miles of highway; plans by Dakota Engineering Co., Mitchell, S. D.; check for \$100; officially advertised in this issue of the Improvement Bulletin.

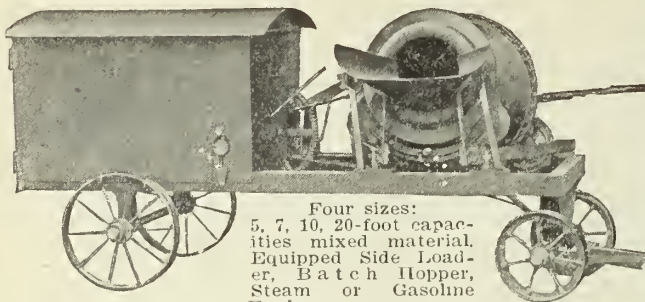
**Wash., Homer**—Bids received by J. L. Wadsworth, county auditor, until March 21, for resurfacing permanent highway No. 2, in Pierce county, a distance of about 4 $\frac{1}{2}$  miles, with brick, sheet asphalt or asphaltic concrete.

**Wis., Appleton**—Bids are being asked for by A. J. Brusewitz, chairman of the committee of the board on highways, for road machinery as follows: One road roller with sprinkler equipment, including hose and pump; 1 stone crusher and bin with screen equipment; two small two-horse graders; six No. 2 $\frac{1}{2}$  wheel scrapers with automatic end-gate attachment; three road plows and tractor; three rooster plows; three stone-spreading wagons; Wm. F. Wolk, county clerk of Outagamie county.

**Wis., Superior**—Bids received by A. F. Chadwick, chairman of the board of public works, until 1 p. m., March 20, for the improvement and pavement or repavement of Ogden av. from and between the south line of N. 5th st. and the north line of



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**Wis., Superior**—Bids received by A. F. Chadwick, chairman of the board of public works, until 1 p. m., March 19, for the grading or regrading and paving or repaving of Tower av., paving to be either reinforced concrete, asphalt, brick, bitulithic or creosoted blocks, and to keep same in good repair for five years.

#### CONTRACTS AWARDED.

**Minn., Duluth**—Contracts for road work to be prosecuted in 2d, 5th and 7th commissioner districts were let by the county board at its March meeting as follows: clearing and grubbing 2 miles of the change in the Vermilion road, along west lines of sections 2 and 11, 51-14, Henry Walkowaik, \$640; clearing and close cutting to a width of 66 feet of 3 1-4 miles of the Rice Lake road, north from city limits, J. D. O'Connell, \$315; constructing 1/2-mile of Flynn road, on east half of south line of section 14, 51-13; H. H. Thompson, \$523; constructing 1 1-4 miles of the Munger road north from the Morris Thomas road, and 1 1/2 miles of the Morris Thomas road west from south one-quarter of section 26, 50-16, Preston & Kribsback, \$3,195; 1 1/2 miles of the Shipley road from south one-fourth of section 4, 52-17, to northeast corner of section 4, Charles Schelin, \$1,200 per mile and 37c per cubic yard for excavating; 3 miles of the Cotton road east from the White Face river in 54-17, Ed. Randall, \$2.50 per rod and \$3 per rod for corduroying; 3 miles of the Town Line road on south lines of sections 31, 32 and 33, 57-19, Einar Sepponen, clearing and grubbing 77c per rod, corduroying \$1.50 per rod, grading \$1.67 per rod, culverts where needed \$2 each; 1 mile of Connors road through section 32, 59-21 Elmer Swanson, \$1,344.75; 1 1/2 miles of the Connors road, section 19, 59-21, and 1/2 of the Stingy Lake road from same, Elmer Swanson, \$3,894.50; 2 miles Buhl and Little Fork road south from Tower-Itasca road, Carl Hagglund, \$3.60 per rod; 5 miles Fraser and Sax roads, south from southeast corner of section 25, 57-19; Einar Sepponen, clearing and grubbing 87c per rod, corduroying \$1.25 per rod, grading \$1.50 per rod, culverts where needed \$2 each. Contracts were awarded on the following bids submitted Feb. 5: John F. Johnson, 1 mile of the Gustafson road on south line of section 3, township 61-20, \$2.50 per rod; Frank Johnson, 1 mile of Gustafson road on south line of section 4, township 61-20, \$2.70 per rod.

**Minn., Janesville**—The German Lutheran Congregation will erect a parochial school this year.

**Mont., Great Falls**—Contracts for paving have been let as follows. Grading Central av., contract to F. E. Evans Contracting Co., \$1,420. Other bidders being Nilson-Smith Co., \$1,509.09; A. Malmberg, \$2,071.30. Grading 1st av. S. from 8th to 10th st., to Joseph Herring at \$935.00. Other bidders: F. E. Evans, \$981.83; Nilson-Smith Co., \$1,192.23; A. Malmberg, \$1,332.49. Boulevarding 1st av. S. from 10th to 11th st. to F. E. Evans Contracting Co., at \$330.60. Other bidders: Nilson-Smith Co., \$372.15; A. Malmberg, \$378.85; J. Herring, \$377. Boulevarding 15th st. from Central av. to 1st av. N., to A. Malmberg at \$274.77. Other bidders: F. E. Evans, \$279.22; Nilson-Smith Co., \$268.12.

**Mont., Helena**—Contract with A. M. Holter Hardware Co., city, for 5,000 feet of open hearth steel culverts, at \$924.

**Nebr., Omaha**—City commissioners will advertise for bids for paving and curbing Douglas st. from 24th to 48th sts.

**Nebr., Omaha**—Contract to J. E. Turner, 2616 Burt st., for grading 12,000 cubic yards on 56th st., between Leavenworth and Center sts.

**Wash., Seattle**—Contract has been made with P. J. McHugh of Seattle for building the Summit stretch of the Sunset highway through Snoqualmie Pass by the highway board. His bid totaled \$203,696. The stretch is four miles on the east side of the summit, beginning at Lake Keechelus and running west and 20 miles on the west side of the summit. Other bidders were: P. E. McHugh, Tacoma, Wash., \$220,075; W. F. Manney, Seattle, Wash., \$224,624; Guthrie-McDougal Co., Portland, Ore., \$258,241; Clifton-Applegate Co., Spokane, Wash., \$246,555; Tribbie & Bowen, N. Yakima, Wash.; E. O. Hall, Hood River, Ore.; O. S. Brown Construction Co., Walla Walla, Wash.; Quigg Construction Co., Wenatchee, Wash.; L. C. Lane, Seattle, Wash., North Bend Lumber Co., North Bend, Wash.; Sloane Bros., box 348, Seattle; Geo. A. Banderet, Renton, Wash.

**Wis., Racine**—Contracts for paving have been awarded as follows: to the Western Improvement Co., for paving Washington av., at \$1.49 for paving, 30c for gutter, 60c for curb and gutter, the work comprising 16,606 square yards of brick paving; 6,854 lineal feet concrete gutter and 350 lineal feet of concrete combined curb and gutter. To the Birdsall-Griffith Construction Co., at \$1.99, for paving north Wisconsin st., with either Danville or Barr brick, curb and gutter at 60c, gutter at 30c; the work comprising 17,535.76 square yards of

brick paving, 8,112 lineal feet combined curb and gutter, 1-151 lineal feet concrete gutter. To James Cape & Sons for paving Superior st., at \$2.05 for Purington brick, \$1.99 for Barr brick, or \$1.99 for Danville brick, 60c for curb and gutter, and 30c for gutter, the work comprising, 8,372 square yards of brick paving, 4,141 lineal feet of combined curb and gutter; 339 lineal feet of concrete gutter.

**Iowa, Cherokee**—Contract has been let to the Bryant Asphalt Paving Co., Waterloo, Iowa, for about 42,300 square yards Natural Lake asphalt at \$1.66 per yard, and 12,000 feet of curb; 4-inch concrete base with 2-inch top of asphalt.

**Iowa, Marion**—Eight bids were received on a recent request for bids for paving, the lowest on brick being the Ford Paving Co., at \$1.78 and the bids of F. K. Hahn and A. Jaicks on concrete at \$1.10 a square yard.

**Iowa, Marion**—Contract was made with the Ford Construction Co., Cedar Rapids, for paving certain streets, at \$1.78 per square yard, vitrified brick having been decided upon. Figures in full of the Ford Co. were as follows: bituminous concrete, specification A, \$1.58, bituminous concrete, specification B, \$1.47, vitrified brick, block size, sand filler, \$1.78; vitrified brick, block size, grout filler, \$1.86; vitrified brick, brick size, sand filler, \$1.78; vitrified brick, brick size, grout filler, \$1.86; bitulithic, \$1.95; monolithic concrete, \$1.30; sheet asphalt, specification A, \$1.90; sheet asphalt, specification B, \$1.78 1/2; earth filling, 42c; earth excavation, 42c; crushed stone in place, \$1.60; Portland cement, bbl., \$1.70.

**Minn., Carlton**—Contracts have been awarded for the big Duluth-Moorhead trunk line road, known as state highway No. 11, as follows: to John Bergman, Duluth, for construction of entire road, less graveling, less bridges and metal culverts, but including two reinforced concrete culverts, four wooden or timber culverts and for hauling and placing the metal culverts, \$48,560.30; to the Wheeling Corrugating Co., for metal culverts, at \$2,795; to the Illinois Steel Bridge Co., for bridges, at \$7,189.

**Minn., Duluth**—Contract has been made with the Austin Western Road Machinery Co., for a scarifier at \$450. Improvement Bulletin.

**Minn., St. Cloud**—Contract has been awarded to C. C. Deering, city, for paving E. St. Germain st., at 50c per cubic yard, for grading, and \$1.65 per square yard for paving.

**Minn., St. Cloud**—Contract with Nels Henning for the curbing of 9th av. S., six blocks, at 23.5c for the 16 to 18-inch curb, and 27c for the 18 and 20-inch, and 28c for the 20 to 24-inch curbs.

## DRAINAGE AND IRRIGATION

### Notes Arranged Alphabetically by States.

**Iowa, Albert City**—A. H. Cunningham appointed engineer to survey and report on ditch, asked for by N. H. Leonard and others; W. W. Bennett, county auditor.

**Iowa, Boone**—Engineer's report is favorable on establishing drain 113. G. H. Getty, auditor.

**Minn., Bemidji**—Ditch 24, may be constructed soon, final report filed by E. J. Bourgeois, engineer, viewers appointed, estimated, cost \$41,099, 29 miles; final hearing on ditch 2, held March 4, ordered constructed and will be advertised.

**Minn., Blue Earth**—Hearing March 31, county ditch 24, J. L. Herring, county auditor.

**Minn., Blue Earth**—First notice county ditch 22, fixes hearing for March 16. Jesse L. Herring, auditor.

**Minn., Buffalo**—Hearing March 25th, on petition of Math Weber and others for county ditch.

**Minn., Carlton**—Hearing 10 a. m., April 6, on ditch petitioned for by Lawrence M. Hollis and others; John B. Thomson, clerk, district court.

**Minn., Duluth**—Special meeting to confirm report of engineers and viewers, county ditch No. 2, Meadowlands, will be held by county board March 30.

**Minn., Fairmont**—Petitions for two more judicial ditches have been filed with clerk of court, one in east part of Fairmont township to be called 42; the other in Pleasant Prairie and Center Creek No. 43; hearing April 3.

**Minn., Slayton**—County ditch 34, ordered established, recently, will cost about \$45,000, largest yet established in Murray county; tiled throughout, tile in main ditch 26-inch. Contract probably will be let about March 15. Twenty-three miles long.

**Mont., Powell**—Work on the Alkali Creek flume has been started.

**Nebr., David City**—Capacity of reservoir Loup River power project will be increased to 24,000 h. p. making necessary much more machinery and larger building.

**Nebr., Holdrege**—Government will take steps soon to furnish surveyor and engineer to report on Tri-County irrigation



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### BIDS WANTED.

**Iowa, Storm Lake**—Bids received until 2 p. m., April 7th, for improvements in district No. 55, Buena Vista county; 1,000 feet 18-inch tile, 1,300 feet 16-inch; 1,045 feet 15-inch; 1,000 feet 7-inch; 2,017 feet 6-inch; average haul  $8\frac{1}{2}$  miles from Storm Lake, 5 miles from Truesdale, W. W. Bennett, auditor; bids received 1 p. m., April 7, for construction and improvements drainage district 3, 1,650 feet 24-inch; 150 feet 18-inch; 400 feet 16-inch; W. W. Bennett, county auditor.

**Iowa, Webster City**—E. S. Boudinot appointed to survey proposed drainage district, following petition by Charles Blair and others.

**Minn., Duluth**—Bids will be received probably in April for ditch 2, near Meadowlands, Minn., 24 miles of ditch, 21 miles of road, 205,000 cubic yards excavation, 24 small bridges; estimated cost \$43,000. E. K. Coe, Court House, Duluth.

**Minn., Grand Rapids**—Bids received by county auditor, until 3 p. m., March 27, for construction, Itasca county judicial ditch No. 2; total estimated cost \$67,280; including, 54 corrugated metal culverts, 39 box culverts, 469,000 yards of excavation,  $34\frac{1}{2}$  miles roadway leveling; check for 10 per cent; Pierce X. Weimerskirch, engineer, St. Paul; M. A. Spang, county auditor; official advertisement in the Improvement Bulletin this week.

**Mont., Great Falls**—Bids received by F. H. Newell, director, United States reclamation service, until 2 p. m., March 20, for earth work and tunnel, Pablo canals, lateral 31A, 3,400 yards open excavation, 520-foot tunnel; six miles southwest of Polson, Mont.

**Neb., North Platte**—Bids received until noon, April 17, for completion of 700 feet concrete weir wells, head and sluice gates; check for \$250; I. E. Ware, secretary, Hershey, Neb.

**S. D., Vermillion**—Engineer G. Y. Skeels, who will have charge of Yankton-Clay county drainage ditch, has made a report recommending 13 laterals and main ditch to cost with right of way, culverts, bridges, dikes, etc., \$163,457; joint board will meet again soon.

**Wis., Appleton**—Bids will be taken in the spring for two drainage district, Outagamie, county; Black Frick district, \$85,000 to \$90,000; F. S. Bradford, First National Bank, Appleton, attorney, O'Keefe-Orlison, engineering and construction company, engineers, Appleton.

### CONTRACTS AWARDED.

**Iowa, Northfield**—Contract awarded to Olson Bros., Northwood, for laying tile and filling trenches in district 11, Wirth

county, at \$22,500; tile contracts divided between Mason City Brick & Tile Co., American Brick & Tile Co., and Hawkeye Cement Tile Co.; total, \$34,500. Contract for head walls to J. H. Salisbury, Dows, Iowa, \$2,880.

**Minn., Fairmont**—Contract awarded on judicial ditch 27, to L. P. Axelson, Clear Lake, Iowa, \$23,200; other bids: Chris Axling, \$24,500; Otto Johnson, \$24,906; Chris Hougstad, \$29,200; contract for judicial ditch 30, let to Gregor Christianson, \$4,489; Otto Jensen, \$4,749; James Gerding, \$4,950; W. C. Markland, \$4,600; L. P. Axling, \$4,900; Schaeffer Bros., \$4,990.

**Wis., Elkhorn**—Contract awarded to Elkhorn Dredge Co., for outlet ditch, 2 miles long, work to start soon as possible.

**Wis., Sturgeon Bay**—A. W. Lawrence will install irrigation system on 13 acres; piping of farm.

## SEWERS

Notes Arranged Alphabetically by States.

**B. C., Vancouver**—The city will soon let contracts for sewer pipe on various streets, amounting to over \$80,000.

**Iowa, Burlington**—Hearing March 23 for a combination storm water and sanitary sewer on Prospect Hill, consisting of a main trunk sewer and branch sewers. Robert Kroppach, city clerk.

**Iowa, Cedar Rapids**—Hearing March 27, for a sanitary sewer on 16th st., E av. and on 17th st., with vitrified sewer pipe, 15-inches in diameter from 24 to 30 inches long; L. J. Storey, city clerk.

**Iowa, Charles City**—Preparations are under way for plans for a sewage disposal plant; address city clerk.

**Iowa, Marshalltown**—The board of supervisors is figuring on the purchase of a steam shovel and a string of dump wagons for road work; specifications require that the machine shall move three-quarters to five-eighths of a cubic yards at each site, operated by steam, move under its own power, and be able to climb fairly steep grades on planking; W. W. Morehouse, county engineer; Alva H. Walker, county auditor.

**Iowa, Sac City**—Hearing April 13, on sanitary sewers in 15th st., Hobbs st., 10th st., 12th st., and Williams st., all be of No. 1, 8-inch vitrified sewer pipe; W. F. Weary, city clerk.

**Minn., Cuyuna**—The city council is reported to be advertis-



ing for the construction of a sewer system, the contract price of which shall not exceed \$20,000; address the city clerk.

**Mont., Fort Benton**—City council has employed A. L. Jaquith for the engineering and supervision of the proposed sewer work for which bonds were recently voted in the sum of \$33,000; address city clerk.

**Mont., Great Falls**—Ordinance for a special election to vote \$70,000 for the South Side sewer has passed. Address city clerk, W. H. Harrison.

**Sask., Moose Jaw**—The city council is considering sewer and water house connections to cost \$40,000; also sewer and water extensions to cost \$150,000.

**S. D., Aberdeen**—The city commissioners are considering putting in a storm sewer in the northwestern part of the city; address city clerk.

**S. D., Britton**—The subject of a \$30,000 sewer system is being agitated here; address city clerk.

**Wash., Bremerton**—Plans have been completed for sewers to cost about \$16,000; Fred S. Hathaway, city engineer.

**Wash., Centralia**—Plans for a trunk sewer with laterals 2 miles long and costing about \$150,000, are being prepared by Stanley Macomber.

**Wash., Seattle**—Plans have been approved for paving and sewers California av., amounting to \$205,000; address secretary of board of public works.

**Wis., Clintonville**—The citizens have voted \$30,000 for a sewage disposal system and a municipal water system; address city clerk.

**Wis., Eau Claire**—Petition referred for sewer on Franklin st. from Birch to the north end of Franklin st. Address city clerk.

**Wis., Eau Claire**—The city council has ordered the construction of a sewer on Broadway, from 1st to 2d avs., with necessary appurtenances; and the city engineer is ordered to make an estimate of the cost of the work; J. C. Fennessey, city clerk.

**Wis., Racine**—Plans for the trunk line sewer to cost about \$185,000 are about completed by Alvord & Burdick, engineers, Chicago, Ill.; P. H. Connolly, city engineer.

#### BIDS WANTED.

**Iowa, Davenport**—Bids received by J. W. Crowley, commissioner of the board of public works, until 2 p. m., March 17, for sewers in Division, Liberty and Union sts., Wilkes av., Howell, Prairie, Leonard, Sturdevant, Franklin and Davie sts., to be begun before May 1, and finished by Sept. 1; check for \$500.

**Minn., New Ulm**—Bids received by Albert J. Meyer, city clerk, until 5 p. m., April 8, for sewers on Broadway, Washington and 3d st. S.; check for 10 per cent; officially advertised in this issue of the Improvement Bulletin.

**Mo., Webster Groves**—Bids received by R. L. Mook, city engineer, until March 23, for sewer work requiring 16,000 feet of 8-inch tile, 1,600 feet of 10-inch, 1,600 feet of 12-inch, 40 manholes, 14 flush tanks, and a septic tank. Plans being prepared for further work.

**Neb., Laurel**—Bids received by Paul Stewart, village clerk, until 8 p. m., March 19, for a sewer system in district No. 1; plans by Bruce & Standeven, engineers, Omaha; check for \$500.

**N. D., Grand Forks**—Bids received by Chas. J. Evanson, city auditor, until 4 p. m., April 6, for lateral sewer No. 6, sewer district No. 10, requiring 150 feet of 10-inch sewer pipe and 1 lamp hole, to be completed by June 1; check for \$500.

**Sask., Humboldt**—Bids received by W. H. Stiles, secretary treasurer, until April 15, for sewer mains, sewer pipe and disposal plant.

**Wis., Racine**—Bids received by P. H. Connolly, chairman of the board of public works, until 10 a. m., March 21, for a sewer in Barker st., requiring 6,100 lineal feet of 8-inch pipe and 3 lamp holes, work to be completed before May 15; also at the same time, for a sewer in Carmel av., requiring 1,150 lineal feet of 8-inch pipe sewer and 2 manholes, to be completed before June 1; also, at same time, for a sewer in Quincy av., requiring 480 lineal feet of 8-inch pipe sewer and 1 manhole, to be completed by June 1; all bids to be accompanied by a contract with sureties.

**Wis., Reedsburg**—City will advertise for sewers in the near future; Wm. H. Dierken, city clerk.

**Wis., Superior**—Bids received by P. J. Ekstrand, chairman of the board of public works, until 1 p. m., March 23, for a sewer in the alley between Tower and Banks avs., etc.; check for 5 per cent.

#### CONTRACTS AWARDED.

**Alta., Bassano**—Contract has been made with Bennett-Debnun & Co., Calgary, for a sewer system, amounting to \$10,590.

**Iowa, Cherokee**—Contract has been made with the Bryant Asphalt Paving Co., Waterloo, for about 42,000 square yards of bituminous concrete paving.

**Iowa, Davenport**—Contracts on sewer work have been let

as follows: T. J. O'Hara, on Park av., at \$364, there having been also the bid of the Hydraulic Construction Co., at \$367. Contract was given to D. E. Keeler Co., city, for the subdistrict No. 7 on main district No. 13, at \$18,206. Other bidders were the Hydraulic Construction Co., city, at \$19,621; D. J. Ryan Construction Co., city, at \$19,118; Hydraulic Construction Co., city, \$25,472. J. W. Crowley, commissioner of public works.

**Iowa, Sioux City**—Contract with Cady & Savonell for sewer work, sewer worth \$23,644.75; the South Cornelia st. sanitary sewer for \$638.45, the Court st. storm sewer for \$9,530.55 and the 21st, 22d and Lafayette st. storm sewer for \$13,475.75. George B. Cook got Cole's addition sanitary sewer for \$7,676. F. T. Leeder, the Main st. storm sewer for \$1,186.30, and the Ross st. storm sewer for \$5,726.50. Julius Overson, the Davis addition storm sewer on a bid of \$2,528.

**Minn., Kelliher**—The low bidder for the sewer work here was Hugh Bosworth at \$4,750; the sewer will be 3,000 feet long; the Imhoff tank will be extra.

**Mont., Anaconda**—Contract has been made with Thos. Kelly for sewer work amounting to \$674.

**Neb., St. Paul**—Contract with the Elkhorn Construction Co., Fremont, for the sewer system here.

**Wis., Sheboygan**—Contract has been let to Aug. Vowinkel, city, for sewer work amounting to \$331; to Peter Borst for sewer work amounting to \$846.

## BRIDGES

*Notes Arranged Alphabetically by States.*

**Iowa, Cresco**—County board resolved to construct 16 bridges and culverts; hearing March 20; E. A. Hoopman, county auditor.

**Iowa, Iowa City**—Plans are being discussed for a cement bridge over the Iowa river on Burlington st., to replace the present old bridge which is said to be unsafe; Geo. W. Koontz, mayor.

**Iowa, Maquoketa**—County board resolved to construct bridge No. 12, in Farmers Creek township, 8x10 concrete box, 20-foot roadway, cost \$1,900; 3x3 concrete box culverts, 3-foot span, 20-foot roadway, cost \$450. Hearing March 17. H. E. Strain, county auditor.

**Iowa, Montezuma**—Board of supervisors resolved to construct seven county bridges. Objections March 17. W. C. McKee, county auditor.

**Iowa, Wapello**—County board resolved to construct five bridges in Louisa county; hearing March 17; H. W. Baker, county auditor.

**Man., Kenville**—Council passed a motion asking for plans for a steel bridge over Swan River on Thunder Hill and Harlington road.

**Minn., Chaska**—F. W. Haas of the Simms Lumber Co., was awarded contract for culverts to be used in road construction this year.

**Minn., St. Paul**—The park board will soon advertise for bids for building four bridges over the canal at Phalen Park. Plans by Fred Nussbaumer, superintendent. Estimated cost \$72,000.

**Minn., St. Paul**—Bids received by L. G. Hoffman, secretary board of park commissioners, March 16, 2 p. m., for bridge improvements in Phalen Park; check for 10 per cent.

**Minn., Verndale**—Bids received by I. J. Cottrell, town clerk, 3 p. m., March 19, for building bridge No. 1087, in town of Wing River, will be 50-foot span, 18-foot roadway, concrete floors and foundations; check for 5 per cent.

**Minn., Winona**—Chicago & Northwestern Railway Co., will reinforce the superstructure of its bridge over the Mississippi river at a cost of \$40,000.

**Mont., Bozeman**—Ranches from the lower Madison have petitioned county board for a bridge across Madison river near the Wilcox ranch.

**Mont., Deer Lodge**—E. N. Brandegee, president of the Montana-Clinton Copper Co., operating south of Elliston, has asked the Powell county board for a bridge over the Little Blackfoot river 5 miles south of Elliston.

**Mont., Dillon**—County boards of Beaver Head and Silver Bow will construct a bridge across the Big Horn river; estimated cost \$610,000; contract will soon be let.

**Mont., Great Falls**—A joint county bridge across Dearborn river between Cascade and Lewis & Clarke counties is being considered; county clerk was authorized to advertise for bids for a pile bridge over Sand Coulee creek near Tracy. Bids will be received till 11 a. m., March 23, for supplying metallic culverts in car load lots for the year.

**Mont., Livingston**—Sweet Grass Good Roads Association, Harvey Coit, president, has started a movement for a bridge



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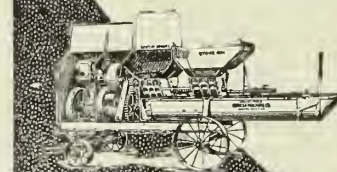
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across the Yellowstone west of Big Timber. About \$5,000 has already been subscribed and county board will act on bridge at next meeting.

**Mont., Three Forks**—Two Bridges will be built over the Madison river; write L. F. Hare, president of local Commercial club.

**S. D., Vermillion**—At a joint meeting of Clay and Yankton county boards, engineer, G. Y. Skeels reported ten bridges would have to be built on the Yankton-Clay drainage ditch.

**Wis., Ellsworth**—Contract for six steel bridges in various parts of Pierce county let to Steine Construction Co., Medford. Whitewater Bridge Co., \$1,963.

**Wis., Racine**—Chicago & Northwestern Railway will build a subway on Mound av. this year; P. H. Connolly, city engineer.

#### BIDS WANTED.

**Minn., Duluth**—Bids will probably be received some time in April for ditch No. 2 near Meadowlands. Work includes 24 bridges, 24 miles of ditch, 21 miles of road. Cost \$43,000. E. K. Coe, court house. O. Halden, county auditor.

**Minn., Ivanhoe**—Bids received March 24, 1 p. m., for erection of a steel bridge in Lake Stay township, 18-foot, clear beam span, by town board of Lake Stay; check for 5 per cent. On the same day and hour county board of Lincoln county will receive bids for two reinforced concrete culverts in Hendricks township; check for 5 per cent; Karl A. Hansen, county auditor.

**Minn., Little Falls**—Bids received by B. Y. McNairy, county auditor, 2 p. m., April 7, for building state bridge No. 1,223 in town of Bellevue, will be 90-foot span, 18-foot roadway, concrete floor on gravity abutments; check for 5 per cent.

**Neb., Gordon**—Bids received by H. F. Wasmund, Jr., county clerk, 12 m., March 20, for building bridges in Sheridan county. Check for \$500.

**Neb., Kearney**—Bids received by J. H. Dean, county clerk, for construction of bridges and bridge repair work in county for 1914, 12 m., March 25; check for \$500.

**Neb., Rushville**—Bids received by H. F. Wasmund, county clerk, 12 noon, March 20, for building all county bridges in 1914. Check for \$500.

**N. D., Hillsboro**—Bids received by Nels O. Lindaas, county auditor, 3 p. m., April 8, for construction of all steel and concrete bridges in the county for 1914; check for \$100.

**N. D., Shafer**—Bids received by O. P. Benson, county auditor, 4 p. m., April 6, for furnishing McKenzie county a car load of mixed sizes of steel culverts; check for \$100.

#### CONTRACTS AWARDED.

**Iowa, Audubon**—Contract for 20 concrete bridges and culverts awarded to Lana Construction Co., Council Bluffs, Iowa, at \$12,600.

**Iowa, Cedar Rapids**—The John Wheeler Construction Co., Geneva, Ill., was awarded contract to build concrete B av. bridge over Cedar River at \$94,572. The next lowest bid was submitted by Ford & Tappin of Cedar Rapids at \$99,100.

**Iowa, Ida Grove**—Iowa Bridge Co., got contract for 34 bridges at \$25,368. All bids for corrugated culverts were rejected. Des Moines Bridge Co. got contract for reinforcing steel. Bids for labor on bridges and roads was laid over until April meeting. Aug. Fritz, chairman, county board.

**Iowa, Iowa City**—The Missouri Construction & Ballast Co., Cedar Rapids, got the contract for 13 culverts and 5 bridges at \$14,556; Des Moines Bridge & Iron Co., 3 bridges at \$4,638. The largest bridge will be built by Iowa Bridge Co., Des Moines, at \$4,320.

**Iowa, Marshalltown**—The Thor Construction Co., Cedar Rapids, was awarded contract for one 44-span near Rhodes and two 31-foot spans east of Rhodes at \$5,880.

**Minn., Brainerd**—Contract for bridge fill in Northeast Brainerd was let to McCullough & Cheney, Minneapolis, at 24 9-10 cents per cubic yard. The city will build the culvert necessary.

**Minn., Little Falls**—A. B. Peterson received contract for building bridge No. 1192 in Belle Prairie town at \$1,458.

**Mont., Great Falls**—Contract to Ewing & Houseman for full fill and approach to the Ulm bridge at \$1,670.

**S. D., Clear Lake**—Contract for bridges to be built in Deuel county for 1914, was let to W. F. Woolworth, a local man. The only other bidder was L. N. Butler representing the M. A. Adams Co., Minneapolis.

**S. D., Vermillion**—Contract for all steel and wooden bridges to be built in county for the year awarded to Federal Bridge Co., Des Moines, Iowa, and to Ward & Weighton, Sioux City, Iowa, for concrete bridges.

**Wis., Antigo**—J. H. Powell, chairman of the town board of Ainsworth is making arrangements for construction of a steel bridge across Swamp Creek in that town.

**Wis., Menomonie**—Contracts for bridges were let as follows: Mishler bridge, town of Peru, to Chas. G. Moore, Eau Claire, \$1,972; Lower Knights creek bridge, town of Weston, to Chas. Moore, \$990; Huften bridge, town of Rock Creek,



## WATER WORKS



Notes Arranged Alphabetically by States.

**Alta., Calgary**—A by-law has been passed calling for main extensions to cost \$138,000, \$68,000 for domestic connections and meters, and \$18,000 for construction of tunnel under Bow river.

**Iowa, Bedford**—A stock company has been formed, H. R. Reynolds, secretary, for the purpose of constructing a reservoir to provide water for the city, and to sell same to city.

**Iowa, Boone**—Election March 23, to vote on issuing \$20,000 for water works; Otto Hile, clerk.

**Iowa, Oakland**—Sanitary engineer L. Higgins of the state board of health in consultation with the mayor and council and Dr. G. C. Giles, city health commissioner, to make plans for a pure and adequate water supply.

**Minn., Cary**—Contract will be let early next month for water works, estimated cost \$44,000. Mains will be laid from New Duluth.

**Minn., Detroit**—Henry Reinhardt and B. S. Rice, a committee appointed to investigate petitions for water main extensions, recommend that a bond issue be voted on at spring election for same.

**Minn., New Ulm**—F. D. Minium, city engineer, is preparing plans for a concrete reservoir, capacity, 75,000 gallons.

**Minn., Osakis**—Election March 10, to vote on issuing bonds for \$10,000 for enlarging the water works; C. G. Milliard.

**Minn., Virginia**—Water & Light Commission decided to obtain data on a concrete under ground reservoir to be used as an auxiliary to the present water supply.

**Mont., Cut Bank**—A vote will be taken at election April 6 on issuing bonds for water works.

**Mont., Great Falls**—Construction of a filtration plant and issuing bonds for same, \$150,000, was voted down by council W. H. Harrison, clerk; W. T. Morris, city engineer.

**Mont., Hardin**—B. C. Lillis, engineer, Billings, has prepared plans for a pumping plant and steel tower and tank and 6,000 feet of 12-inch water mains.

**Mont., Wilsall**—C. S. Hefferlin a local man will build a water plant here.

**Neb., Blue Hill**—Water main extensions will be made here this spring.

**Neb., Comstock**—A petition has been circulated for a special election to vote on installing a water works system.

**Neb., Lynch**—Election April 7, to vote on issuing bonds for \$6,000 for a water works system; H. E. McGinitis, clerk.

**Neb., McCook**—Council put the question to the people at spring election whether a pumping plant will be installed or a contract made for pumping city water.

**Neb., Ord**—The local water system may be rebuilt and new machinery purchased.

**Neb., Royal**—Town board has been petitioned for a water works system and better fire protection.

**S. D., Mitchell**—Commercial club has started a movement for a better water system.

**Wis., Hayward**—Thos. McClaine is chairman of a committee to look up plans for a city water supply.

**Wis., Luck**—Election April 7, to vote on issuing bonds for \$3,000 for construction of a water works system; A. Pederson, village clerk.

**Wis., Racine**—E. R. Townsend, engineer, engaged to investigate fire protection here recommends the installation of intake pipe 30 inches in diameter, a high pressure pump of at least 5,000,000-gallon capacity with addition boiler capacity for same and arrange steam pipes so that the supply to all pumps will be in duplicate, additional gate valves, yard hydrant at pumping station and additional hydrants on business streets.

**Iowa, Waterloo**—The water commission has been petitioned for water main extensions to Chautauqua Park.

**Wis., Two Rivers**—D. W. Mead and Chas. V. Seastone, consulting engineers, recommend the construction of a 16-inch intake pipe into Lake Michigan, cribs and wells for water works improvements; estimated cost \$35,000; Jos. Doyelsh, city clerk.

**Wis., Two Rivers**—Engineer Walter's, Madison, report on city water supply recommends an intake pipe into the lake and if necessary a filtering attachment, estimated cost \$35,000. Jos. Doyelsh, city clerk.

#### BIDS WANTED.

**Iowa, Muscatine**—The Muscatine and Louisa county supervisors will meet in joint session April 14, to receive bids for the pumping plant in the No. 13 drainage district. It was voted to rescind their former action in awarding contract to the McDonald Engineering Co., Chicago. In calling for new bids both electrical and steam equipment will be specified.

**Iowa, Woodbine**—Bids received by C. C. Haas, town clerk, 8 p. m., March 16, for extensions of water mains, steel tower and tank; check for \$500.



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**Minn., Eveleth**—Bids received by A. P. Romer, city clerk, March 17, 8 p. m., for two Scotch marine boilers, 150 h. p. each, 2 horizontal tubular boilers, stand and complete, 72-inch diameter, 18-foot flue, 150 h. p. with full front, buck bars and rods, suspension for the boilers, and in the bid will be a price also for fixed domes on the boilers. A separate price for breaching the boilers, length of breaching 31 feet from the center of boiler nearest the stack. Lettering on front of boilers to be Eveleth Water Works; check for 10 per cent.

**Minn., St. Paul**—Bids received by L. G. Hoffman, secretary park board commissioners till 2 p. m., March 16, for painting water tower at Como Park; check for 10 per cent.

**Minn., New Ulm**—Bids received by Albert J. Meyer, city clerk, until 5 p. m., April 8, for laying 4,370 feet of 6-inch water mains, etc.; check for 10 per cent; officially advertised in this issue of the Improvement Bulletin.

**Mont., Helena**—Bids received 8 p. m., March 16, by D. J. McConnell, city clerk cast iron water pipes, fire hydrants, etc. Check for 10 per cent.

**Neb., Rushville**—Bids received by H. L. Edwards, clerk, 2 p. m., March 27, for a steel tower and tank; check for 10 per cent.

**Sask., Humboldt**—Bids received by W. H. Stiles, secretary-treasurer, April 15, for erecting pump house and filter house, furnishing material for erecting water tower, furnishing and installing pressure filters, furnishing and installing pumping machinery, water pipes, valves and hydrants.

**S. D., Huron**—Bids received by F. F. Oviatt, 2 p. m., March 26, for construction of a mechanical gravity filter plant; check for 10 per cent.

#### CONTRACTS AWARDED.

**Minn., Eveleth**—Lawrence McCann & Co. have contract to build pumping plant, cost \$35,000. Will be 50x100, fireproof, faced with pressed brick. A new pump will be installed with daily capacity of 1,000,000 gallons.

**Minn., Hastings**—Contract awarded to A. H. Truax for water mains on 2d st. at \$820.

**Minn., Hibbing**—Contract for cast iron water pipe to be used in Alice and Brooklyn was let to the United States Cast Iron Pipe & Foundry Co., Chicago, at \$25.30 per ton. Contract for digging well let to J. H. Sharpe, estimated cost \$10,000.

**Neb., Gering**—Contract for water works system let to Inter Mountain Bridge Co., Tecumseh, Neb.

**S. D., Utica**—Will Bruce, Yankton was awarded contract to construct water works and pumping station, Omaha Structural Steel Co., got contract for a 40,000-gallon tank.

**Wis., Madison**—Contract for water meters awarded to Hershey Co. at \$1,800. For water pipe for the year to American Cast Iron & Foundry Co.

## PUBLIC BUILDINGS

*Notes Arranged Alphabetically by States.*

**Colo., Denver**—The following bids were received by the supervising architect, Treasury department, Washington, D. C., February 16, for the mechanical equipment, except roof drainage and elevators of the U. S. postoffice at Denver, Colo.: Evans, Almiral & Co., New York City, \$149,725; G. A. Kees Domestic Engineering Co., St. Paul, Minn., \$133,797; Downey Heating & Supply Co., Milwaukee, Wis., \$160,000; Chris Irvin Plumbing & Heating Co., Denver, Colo., \$155,389; Johnson & Davis Plumbing & Heating Co., Denver, Colo., \$153,518; Warner & Rittenhouse, Washington, D. C., \$137,891; W. G. Cornell Co., Washington, D. C., \$134,985; Farwell Heating Co., Atchison, Kas., \$149,790.

**Iowa, Dubuque**—Bids for the repair of the U. S. postoffice here have been received as follows: Grohne Contracting Co., Joliet, Ill., \$4,739, 120 days; A. Ney, 1560 Iowa st., Dubuque, \$6,698, 130 days; J. P. Sullivan, 4515 Indiana av., Chicago, Ill., \$8,644, 150 days.

**Iowa, Marshalltown**—The executive committee of the fair association has directed secretary W. M. Clark to secure plans and estimates for a poultry building and to arrange to finance the addition to the grandstand.

**Iowa, Mt. Pleasant**—The controversy over the Henry county court house has been settled by the county taking over the building from the contractors and will proceed to finish it. The difficulty has been chiefly over the plastering which has been condemned three times by the inspector.

**Minn., Ada**—Voters of the town of Pleasant View were to vote this week on building a town hall at Hadler, (not a post-office); D. E. Fulton, auditor of Norman county, at Ada.

**Minn., Moorhead**—The city jail will be remodeled, enlarged and made completely fireproof; a fire wall will be built, shower bath installed, plumbing remodeled, etc.; address city clerk.

**Mont., Dillon**—Plans for the new city hall, prepared by Fred F. Willson & Co., architects, Bozeman, have been adopt-

ed by the council; address city clerk; bids are to be asked for in the near future, and excavation on the site will commence at once.

**Mont., Poplar**—The county commissioners at Pientywood have decided to build a jail at Poplar at once; I. L. Moses instructed to arrange for materials.

**Neb., Lincoln**—A county building to cost \$8,000 will probably be rebuilt on the site of the building recently burned, to be of brick; address county auditor.

**Neb., Omaha**—The city commission has ordered bids for the re-roofing of the fire station at 24th and Cuming sts.; address city clerk.

**Wis., Fond du Lac**—Work on the women's reformatory will be commenced as soon as the weather will permit; board is to decide whether brick or stone shall be used; Ralph E. Stone, president of the state board of control; Allan D. Conover, consulting architect; address these parties at Madison, Wis.

**Wis., Green Bay**—The city council is considering the building of a new jail; address city clerk.

**Wis., Menomonie**—John D. Chubb, architect, Chicago, is preparing plans for the new domestic science building of Stout Institute, which will cost \$200,000; when completed, bids will be advertised for, the excavation probably separately in order to avoid delay.

**Wis., Merrillan**—The state board of control has ordered the authorities here to build a new jail. Address city clerk.

**Wis., Platteville**—The city council has appropriated \$1,500 per year for the maintenance of a Carnegie library and feels assured of a library building in the near future; address city clerk.

**Wis., Wausau**—The city council expects to build an addition to fire department building No. 1; city engineer instructed to prepare a sketch and profile and an estimate of probably cost of a 2-story building and basement adapted to needs of the several departments of the city; address city clerk.

#### BIDS WANTED.

**H. T., Hilo**—Oscar Wenderoth, supervising architect, Washington, D. C., will request supplementary bids for the construction of the U. S. postoffice here.

**Ida., Council**—Bids received by county clerk until April 13, for plans and specifications for a vault about 14x16.

**Ill., Sycamore**—Bids received by Oscar Wenderoth, supervising architect, Washington, D. C., until 3 p. m., April 3, for the U. S. postoffice here; one story, base 3,800 square feet ground area; first floor fireproof, stone and brick facing, tin and composition roof.

**Iowa, Glenwood**—Bids received by J. P. Guth, architect, Omaha, Neb., about April 1, for the new armory here; plans will be ready March 15; 64x100, and will have in addition to other armory features a permanent stage 20 feet in depth; R. E. Humphrey, captain local company.

**Iowa, Waterloo**—Bids are wanted by the custodian of the U. S. public building for minor repairs.

**\*Minn., Staples**—Bids received until 8 p. m., March 24, for cells, etc., jail; see official advertisement in the Improvement Bulletin, this week.

**Mont., Butte**—Bids are being received by the custodian of the postoffice here for shelving; copies of specifications may be obtained from the custodian.

**Mont., Helena**—Bids received by D. J. McConnell, city clerk, until 8 p. m., March 16, for the installation of a steel ceiling in the auditorium building; bidders will bid on their own specifications, setting forth method of construction and character of materials; check for \$1,000.

**Neb., Broken Bow**—Bids received by W. H. Osborne, Jr., county clerk, until noon, April 6, for a jail and jailer's quarters, including heating, plumbing and electric wiring; drawings and specifications can be obtained from John Latenser, architect, 632 Bee building, Omaha, upon application; check for \$25.

**Neb., Thedford**—Bids received by county clerk, until March 23, for repairs to the Thomas county court house.

**N. D., Sanborn**—Bids received by F. R. Hill, clerk, of the village, until 8 p. m., April 2, for the erection of a town hall; plans by Haxby & Gillespie, Fargo, N. D.; check for 5 per cent.

**Texas, Kingsville**—Bids received on readvertisement by Ben F. Wilson, county judge, until April 6, for fireproof court house and hospital; plans by Atlee B. Ayres, 626 Bedell building, San Antonio, Texas; check for \$3,000; bids opened March 1, were all rejected.

**Wis., Ashland**—Plans for the new court house are to be ready by April 20, and bids will be advertised for on that date; Henry Wildhagen, architect; Theo. R. Yankee, county clerk.

**Wis., Fond du Lac**—Bids received by J. F. Hohensee, city clerk, about March 15, for remodeling of jail, to cost about \$1,500; J. S. McCullough, city engineer.

**Wis., Madison**—Bids received by M. E. McCaffrey, secretary



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of the university of Wisconsin, until 2:30 p. m., March 18, for the excavation and foundation for the Liberal Arts building and the soils building; check for 10 per cent; plans obtained for estimating at the office of the architect of the university. Administration building, Madison.

**Wis., Union Grove**—Plans and specifications are now being prepared for the new home for feeble-minded to be built here and bids will be called for about April 1; M. J. Tappins, secretary of the state board of control, Madison, Wis.

#### CONTRACTS AWARDED.

**Iowa, Ames**—Contract for storm windows has been let to H. B. Corbett, Ames, Iowa, at \$165, 30 days time.

**Iowa, Des Moines**—Contracts for improvements at the fair grounds were let recently by the executive committee of the State Fair Association, as follows: Subway under race track—Des Moines Engineering & Construction Co., \$6,043; cattle barn—J. E. Lovejoy, \$5,430; four new sections to street railway entrance—Shorthill Co., of Des Moines, \$2,600; cement walks around Women's building—Louis J. Johnson and J. R. Potts, cost 8 7-8 cents a square foot; cement floor in basement, cost 6 3/4 cents a foot.

**Iowa, Fort Madison**—Contract for metal vault shelving in the U. S. postoffice building here has been let to the Berger Manufacturing Co., Canton, O., at \$98, 90 days time.

**Minn., Anoka**—A sub-contract has been let to Henry Ringhand, St. Paul, for moving the old armory to the rear of the lot, where it will become a part of the new armory; the general contract is held by Morton Fenstad, St. Paul.

**Minn., Minneapolis**—Contract for installation of an electric passenger elevator, electric push button life and hydraulic push button dumb waiter; also hydraulic freight lift and hydraulic ash lift, has been awarded to the Otis Elevator Co., Washington, D. C., at \$9,872, to be completed by July 14.

**Mont., Great Falls**—Contract made with the Diebold Safe & Lock Co., Cleveland, O., for county jail cells, at \$10,742.

**Neb., Omaha**—Contract for remodeling the plumbing in the federal building has been let to Henry Hornung at \$873.

**Neb., Red Cloud**—Contract for the steel fixtures for the Webster county court house has been made with the Steel Fixture Manufacturing Co., Topeka, Kan., at \$2,989. The general contract is held by the Rowles Co., Onawa, Iowa; 64x84, 3-story, vitrified brick, mottled cream and chocolate, made by Sunderland Bros., Omaha; fireproof throughout.

**S. D., Armour**—Contract has been made with James Hanskutt for the erection of a new postoffice building.

and the outlook for its erection is good; address secretary of the Y. M. C. A.

**Mont., Great Falls**—It is expected that plans for the proposed new Masonic Temple will be adopted within a few days; private contract for basement excavation; building operations will be supervised by Alec Mowbray; to be 3-story, standing on high basement walls, brick and terra cotta facing.

**Neb., Alliance**—A committee of which John Snyder is chairman, has been appointed to investigate the feasibility of building a lodge home.

**Neb., Rushville**—Dave Gourley has begun work on the proposed opera house, electric light plant and garage.

**S. D., Watertown**—Plans completed for the Masonic Temple, including kitchen, dining room and lodge rooms; Bentley & Hansler, architect, 1611 Pioneer building, St. Paul, Minn.; 50x100, 2-story and basement, \$50,000; owner, Kampeska lodge, A. F. & A. M., Watertown.

**Wis., Appleton**—Plans for the Masonic Temple will soon be out, though the building may not be erected this year; that will be decided later; address the secretary for information.

**Wis., Green Bay**—The Loyal Order of Moose may secure plans in the fall and build in 1915; Elmer S. Hall, chairman of committee.

**Wis., Racine**—The Loyal Order of Moose is selling stock and negotiating for a site for a lodge building to cost \$60,000; W. M. Foster, president building committee, care of Lakeside Printing Co.

**Wyo., Casper**—H. F. Shaffer, architect, is now engaged preparing plans for the Masonic Temple proposed to be built here; cost \$35,000.

#### BIDS WANTED.

**Minn., Watertown**—Bids are being received by Frank Banderir, owner, on all contracts for a saloon, dance hall and auditorium; 2-story and basement; Chris. A. Boehme, 502 Kasota building, Minneapolis, architect.

**Mont., Miles City**—Bids received by J. B. Morrison, chairman of the building committee, until 4 p. m., March 25, for the construction of a brick and concrete building for the Elks lodge; check for \$2,500.

**Mont., Red Lodge**—Bids will close about April 15, for the Elks' home, John Peters, secretary; plans now in progress by C. Oehme, Billings, Mont.

**Wash., Tacoma**—Bids are to be taken on a \$100,000 theater to be built by John S. Baker for Eugene Levy; R. E. Borhek, architect, Savage-Scofield building.

#### CONTRACTS AWARDED.

**Iowa, Mason City**—Contract for excavation for the coliseum has been let to Sid Bowen.

**Mont., Helena**—Work has been begun on the Y. M. C. A. building; Gargon Co. has the contract at \$80,568; Lewis Johnson has sub-contract for excavation work.

**Mont., Lewistown**—The Piper Construction Co. was the low bidder for the general construction of the building to be erected by the Odd Fellows and Knights of Pythias, at \$27,600; Bisbee & Kane were the low bidders for heating and plumbing at \$5,450.

**Mont., Lewistown**—Following are the bids received by the joint committee of the Odd Fellows and Knights of Pythias for the new building which these lodges will erect; bidders for general work, including electric wiring: John Schroeder, \$32,323; D. J. Kane, \$35,916; J. W. Foster, \$31,995; Piper Construction Co., \$27,600; Logland, Keppe & Co., \$30,950; A. W. Miller Construction Co., \$30,610; Lage Engineering & Construction Co., \$30,570; Tubbs Bros., \$33,676; Seerie Bros., \$33,927. Bids for plumbing and heating were: R. C. Reed, \$5,590; Bisbee & Kane, \$5,450; A. A. Stapleton, \$5,825; F. W. Durnall, \$5,495; Winters & Sullivan, \$5,798.

## THEATRES AND HALLS

*Notes Arranged Alphabetically by States.*

**Iowa, Boone**—It is said that a theater with a seating capacity of 1,500 people will be built here, to be located on Story st., no names given out.

**Iowa, Cambridge**—The Cambridge Opera House Co. has been incorporated; Albert Hill, president, for the purpose of building an opera house.

**Iowa, Dubuque**—The success of the project for a new home for the Elks has been announced, to cost \$125,000; Holmboe & Lafferty, architects, New York City.

**Iowa, Estherville**—F. H. Graaf, owner of the Grand theater, is planning to build a large 2-story opera house this summer. Masonic Temple.

**Iowa, Marshalltown**—The Marshall County Fair association is preparing to erect a large poultry house and a hog pavilion and to enlarge the amphitheater; address the secretary of the association.

**Iowa, Monticello**—There is talk among the Masons for the erection of a temple.

**Iowa, Pauline**—The new picture show building will be remodeled to make it an up-to-date opera house; address the mayor.

**Minn., Bemidji**—The Elks think they see their way clear for the erection of a modern building to cost about \$40,000; James L. George is the exalted ruler.

**Minn., Cloquet**—Plans are in progress for a moving picture theater to be owned by F. Redfield, 100x50, 1-story, cost \$12,000; seating capacity 500; Kelly & Williams, architects, First National Bank building, Duluth.

**Minn., Gary**—J. E. St. George and Wm. Cooke will build a theater here; 25x100, frame.

**Minn., Kellogg**—Reported that a large hall for public purposes is to be built here; 40x100, 12-foot dome ceiling, tile and cement; address the mayor.

**Minn., Owatonna**—A fund of \$5,000 has been raised to buy a site for the proposed armory; address the mayor.

**Minn., Rochester**—The Elks are proposing important improvements to their club home.

**Minn., Wilton**—The city hall destroyed by fire; loss \$600.

**Minn., Winona**—A new Y. M. C. A. gymnasium is proposed

## HOTELS AND HOSPITALS

*Notes Arranged Alphabetically by States.*

**Iowa, Belle Plaine**—The Herring hotel, partially destroyed by fire recently, is to be remodeled; Jos. Park, contractor; W. P. Herring, owner.

**Minn., Bemidji**—Haxby & Gillespie, architects, Fargo, have plans out for a \$35,000, hotel here.

**Minn., Campbell**—A cement hotel is to be built here in the near future to occupy the site of the Grand Hotel damaged by fire some time ago; address the mayor.

**Minn., Crookston**—Bids are being advertised for to secure a site for the county tuberculosis sanitarium; Peter Sharpe, president, Ada.

**Minn., Deerwood**—There is talk of a big hotel being built here; address the mayor.

**Minn., Willow River**—The Pine hotel destroyed by fire; loss about \$5,000; insurance \$1,600; Frank Laufenberg, owner.

**Mont., Judith Gap**—Plans have been submitted to the Com-



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mercial club for a \$25,000 hotel to be 3-story, brick and completed by fall.

**N. D., Grafton**—The business men want a modern brick hotel, with 40 or 50 rooms, and the Commercial club has taken the matter up to aid in developing a builder.

**S. D., Sioux Falls**—The Carpenter Hotel Co. has been organized and will enlarge the hotel by an addition and adding a story; Geo. Crocker to have full control.

**Wis., Appleton**—The site has been chosen for the isolation hospital; kind of building not decided upon; Wm. F. Wolf, clerk of Outagamie county.

**Wis., Green Bay**—Architect's designs for the tuberculosis sanitarium to be built near Little Rapids, Brown county, are being prepared, and will later be approved by the state board of control before bids will be taken.

**Wis., Menomonie**—Site has been chosen and plans are being prepared for the new city hospital; Ellerbee, Round & Moore, architects, Eau Claire; 35x60, exterior walls of Menomonie brick; cost \$13,000 or \$14,000; four wards, 20 beds, thoroughly up-to-date.

**Wis., Oshkosh**—The county board has decided to locate the county tuberculosis sanitarium on the grounds of the county asylum at Winnebago, 4 miles north from here.

**Wis., Saxon**—Fire destroyed the boarding house conducted by Patrick Auger.

**Wyo., Sheridan**—Plans under way for a new hotel on Main st.; address John B. Kendrick.

#### CONTRACTS AWARDED.

**Ida., Rupert**—Contract has been awarded to D. H. Gregory for the erection of a rooming house here for L. J. Cox.

**Iowa, Clinton**—Contract has been let for the general construction of the isolation hospital near the Agatha hospital here to J. L. Tompkins at \$3,580; plumbing, to Geo. Kendall & Co., at \$450; heating to Lundgren Bros., at \$498; Morrell & Son, architects, 410 Howes block.

**Iowa, Dubuque**—Contract to Linehan & Molo, city, for the heating, plumbing, sprinkling system and vacuum cleaning plant of the new Dubuque hotel at about \$70,000; 150 rooms are to be provided with complete toilets, 125 with porcelain tubs, 25 with shower equipment; all of the rooms provided with lavatories.

**Minn., New Ulm**—Contract for the fireproof hospital building went to Otto Neitke, Mankato, at \$36,987; Geo. N. McGary, St. Paul, will install heating plant for \$5,840; Richter Plumbing Co., St. Paul, plumbing, \$5,451; A. Hubbard Electric Co., St. Paul, wiring, \$1,546.

**Wis., Grand Rapids**—The American Carbonic Machine Co. of this city, has been awarded the contract for furnishing a complete refrigeration plant for the new Morrison hotel in Chicago. The contract calls for 180 tons of refrigeration every 24 hours, which means that these machines will have to produce the same effect as 180 tons of ice melting every 24 hours.

**Wis., Waupun**—Contract has been let to C. R. Meyer & Sons Co., Oshkosh, for the construction of an addition to the criminal insane hospital at a cost of \$34,508.

## ELECTRICAL

*Notes Arranged Alphabetically by States.*

**Iowa, Bloomfield**—Bonds for \$15,000 will be issued to re-build and modernize the electric light plant.

**Minn., Bemidji**—The Bass Lake Telephone Co., J. N. Skivseth, president, will build 20 miles of line this summer, and have system in operation by June 15. Another farmers' telephone company has been organized and will be known as the Grace Lake and Rosby Telephone Co., A. W. Hoskins, president, Knute Olson, vice president, G. G. Moi, secretary. The system will be put in operation this summer and will connect with Bemidji.

**Minn., Brainerd**—Geo. Reid is pushing the project of an interurban electric line for the Cuyuna range.

**Minn., Brainerd**—The Booster club have taken up the proposition of street lights for West Brainerd.

**Minn., Browerville**—The Browerville electric light and power company incorporated with a capital of \$10,000; H. E. Hart, Thos. Heid and others.

**Minn., Clara City**—Montevideo Light & Power Co. propose to extend their street car line from Sacred Heart to this place. J. F. Druar, Oscar Claussen Engineering Co., St. Paul, consulting engineer.

**Minn., Cold Springs**—Northwestern Telephone Co. will erect rural lines to Jacobs Prairie and the Bavarian settlement.

**Minn., Comfrey**—Election March 10, to vote on issuing bonds for construction of an electric light plant.

**Minn., Cottonwood**—W. F. Mullaney of Marshall will install electric lights here.

**Minn., Forest City**—Electric Short Line surveyors have been

running a line from Kingston to Mannannah following the valley of the Crow river.

**Minn., Hibbing**—Howard and John Graham, bankers of Philadelphia, with representatives of Day & Zimmerman, engineers made an inspection of the Mesaba electric line with a view of investing. It is proposed to build the line to Alice this summer and possibly to Nashwauk; Henry S. Newton, manager.

**Minn., Lewiston**—Electric light bonds were defeated.

**Minn., Minneapolis**—Work will be started soon by the street railway company on six trolley line extensions and a cross town line.

**Minn., Pine Island**—Pine Island Telephone Co. filed articles of incorporation; John Clemens, Jas. P. Kaene and others.

**Minn., St. Paul**—Contract for steel rails for the St. Paul Southern Electric Railway Co. has been let and the company expect to have cars running between Hastings and St. Paul in June.

**Minn., Winnebago City**—Commercial club, W. H. Hodgeman, president has started a movement for a white way lighting system.

**Mont., Glendive**—Contract for construction of the new power plant will be let some time this month.

#### BIDS WANTED.

**Neb., Red Cloud**—Bids received by O. C. Teel, secretary, March 20, 12 m., for erection of a telephone building; check for 5 per cent; separate bids for hot air furnace and heating plant; C. W. Way Co., Hastings, Neb., architects.

#### CONTRACTS AWARDED.

**Iowa, Waverly**—Contract for iron and concrete foundation for electric generator let to J. H. Russell at \$284.50.

**Wis., Oconto**—Contract for city lighting let to People's Land & Manufacturing Co., of Peshtigo.

**Minn., Warren**—Bids received by Rasmus Hage, city recorder, 6 p. m., March 23, for labor and material required for an 80x40-foot chimney, electric light plant; Earle D. Jackson, St. Paul, consulting engineer.

## MILLS AND FACTORIES

**Iowa, Cedar Falls**—Rice & Dayton Co. are erecting another building at rear of their factory, frame, 26x26, 1-story; C. T. Simpson, contractor.

**Iowa, Council Bluffs**—A permit was issued to the Detroit Soda Products Co., for erection of a 2-story frame factory; estimated cost \$10,000.

**\*Iowa, Davenport**—The Standard Oil Co. will erect a new plant in this city; cost, \$100,000; also an office building; concrete and brick; warehouse to be 2-story, 87x124, brick and concrete.

**Iowa, Grinnell**—Howard L. Triplett will improve and enlarge building recently purchased, for a planing mill.

**Iowa, Grinnell**—F. R. Porter will build a planing mill.

**Iowa, Grinnell**—The D. A. Laros & Sons carriage factory will be rebuilt, recently burned; cost \$20,000.

**Iowa, Inwood**—The Hanford Produce Co. have secured a site and will erect a cream station.

**Mich., Plymouth**—The Alter Motor Car Co. will erect a factory here, work to commence at once; C. A. Alter, of Manitowoc, Wis., vice president, R. A. Skinner, secretary and general manager; main office of concern located at Detroit.

**Minn., Bemidji**—Work has begun on reconstruction of the Bemidji Lumber Co.'s mill recently burned; to be in operation by July 1.

**Minn., Faribault**—Fire destroyed the foundry building of the Nutting Truck Co., loss \$3,000.

**Minn., Hibbing**—Ivan Heffenan of Duluth has been awarded contract for construction of an addition to the Island Farm Creamery building here, 40x25, 1-story and basement, modern.

**Minn., Litchfield**—A brick warehouse and office building will be erected as addition to the woolen mills; 50x100, 1-story, concrete floors and possibly concrete roof.

**Minn., Preston**—Louie Winnega, Roy Lewis and Silas Knight of Canton have formed a company and will manufacture the Winnego Automatic raising and self closing gate.

**Minn., Rochester**—Active operation will commence on Rochester's ice plant this week; Gerfield Schwartz, director.

**Minn., Tracy**—The Central Creamery Co. has sold their plant and business to R. E. Cobb, of St. Paul, who will enlarge and improve same; capital, \$250,000.

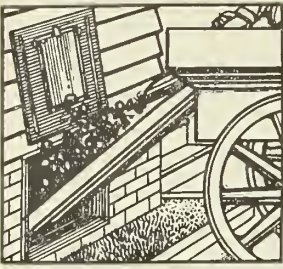
**\*Minn., Virginia**—Water-jacketed sawdust burner will be erected at the mill plant, Bailey Lumber Co. Whitney Bros., Superior, have contract.

**\*Minn., Loretto**—Bids wanted till 1 p. m., April 19, for erection of creamery; see official advertisement in the Improvement Bulletin, this week.

**Mont., Corvallis**—Articles of incorporation filed for a Farmers' Co-operative Creamery to be erected at Woodside this



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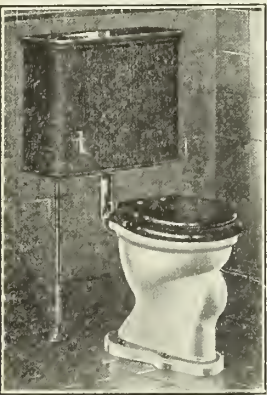
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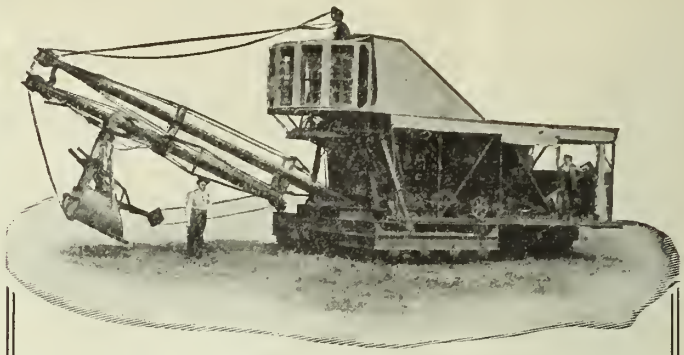
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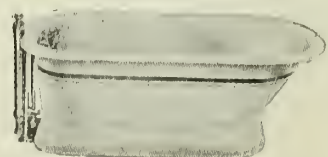
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spring; capital \$5,000, for further information address Wm. Pierce, of Perma.

**Mont., Deer Lodge**—The Deer Dodge Creamery Co. has under consideration the erection of a creamery here; address H. P. Mollenberg, president of the company.

**Mont., Garneill**—Funds are being raised for flour mill here, \$10,000 subscribed; Chas. F. Kuhn, representative, Northwestern Millin Construction Co., headquarters at Billings, interested.

**Mont., Red Lodge**—Project on foot for 50-barrel flour mill here; Charles F. Kuhn of N. W. Millings Co., Billings, interested.

**Neb., Norfolk**—A new engine house and silos are being erected at the Norfolk canning factory.

**Wis., Bowler**—Fire destroyed the sawmill of Adolph Zensiek, at Bowler; loss about \$1,500.

**Wis., Ellsworth**—Frank H. Johnson will erect a modern cement block factory soon, 30x60.

**Wis., Grand Rapids**—The Weinberg Construction Co. is planning erection of a factory for manufacturing of sash, doors and interior finishing goods; cost \$25,000.

**Wis., Marion**—Farmers in the vicinity of the Wm. Piehl district will erect a cheese factory this spring.

**Wis., Oneida**—W. C. Hawkins of the Oneida laundry, announces that he will erect a solid brick building, 52x72; work to start at once, 1-story.

**Wis., Sheboygan**—Electric Fire Alarm Co. will erect a plant here; Joseph Schuer, president.

**Wis., Weyerhaeuser**—Bids received until March 28, 3 p. m., for erection of a creamery building by the Weyerhaeuser Co-operative Creamery association; plans on file at State Bank; address all communications to the Weyerhaeuser State Bank.

**Wyo., Upton**—A \$3,000 creamery is to be erected here by the farmers and business men; site purchased.

**Iowa, Wellman**—Officials of the M. E. church have decided to remodel building and finish basement; cost about \$4,000.

**Minn., Comfrey**—The Dutch Reform denomination will erect a new church this summer, 28x40, Wallin & Johnson, contractors, Messrs. Loof, Valentine and Juhnker, committee.

**Minn., Dawson**—The Hagis Etherion Lutheran church will erect a modern church building; plans nearing completion, A. W. Woods, architects, 109 S. 10th st., Lincoln, Neb., architect will take figures about March 14; cost \$16,000, 75x65.

**Minn., Kenyon**—The German Evangelical congregation plan to erect a new church, funds being raised.

**Minn., Winona**—Work is nearing completion on the new M. E. church building.

**Mont., Libby**—Fire damaged Presbyterian church here, \$1,050.

**Mont., Missoula**—Site has been chosen for erection of a new Episcopal church building.

**Neb., Obert**—The Catholics are contemplating erection of a new church.

**S. D., Woonsocket**—The parish of the St. Wilfred's Catholic church is planning to erect a new \$40,000 church this summer; plans are being prepared. E. L. Masqueray, architect, St. Paul.

**Wis., Manitowoc**—Preparations are being made to start work on the new German Lutheran church at Rockwell, (not a postoffice).

**Wis., Oshkosh**—The Emanuel Evangelical church will erect a new building; 46x102; cost \$16,000, architect, Fluor Bros., 54 State st., plans in progress; Rev. Wm. Suessmuth, pastor, 742 14th st.

**Wis., Sheboygan**—A \$15,000 brick church will be erected by St. Paul's congregation of Sheboygan Falls, to replace present frame structure.

**Wyo., Casper**—Plans and specifications are being prepared by architect for construction of a new Presbyterian church building.

#### BIDS WANTED.

**Iowa, Delhi**—Bids will be opened March 20, for erection of the new church here; plans and specifications on file at Father Rooney, Manchester, Iowa.

**Iowa, Ridgeway**—Bids received until March 13, 1:30 p. m., for erection of a brick church building, for the Norwegian Lutheran Congregational society; plans prepared by J. E. Nason, architect, Minneapolis and on file at the Winneshiek County Bank, Ridgeway; check \$300; Rev. D. C. Jordahl, pastor and secretary; all bids addressed to secretary of building committee.

**Minn., Darfur**—Bids received until April for erection of the Swedish Lutheran church, frame and basement; plans on file at office of treasurer; Theo. Englin; check for 3 per cent.

#### CONTRACTS AWARDED.

**Minn., Mapleton**—Contract awarded to Volbrecht & Ahlf, of LeSueur for construction of the Lutheran church building, at \$15,675; next lowest, J. B. Nelson, Mankato, at \$15,800; other bids received were: Otto Neitge, Mankato, \$17,338; Madison Bros., Minneapolis, \$16,089; Eric Carlstrom, Mankato, \$16,110; Chas. Hrengel, St. Paul, \$16,400; Beckwall & Widell, Mankato, \$18,203; bids do not include heating and plumbing.

**Minn., Redwood Falls**—J. J. Jueneman, secretary, Church of St. Catherine building committee, announced contract for church awarded to John Schilt, Redfield, S. D., at \$17,640.

**Wis., Winneconne**—Contract awarded to Patterson & Kroll, of Clintonville, Wis., for erection of the German Lutheran church, at \$10,000; brick and concrete foundation; plans prepared by Architect Draeger, Oshkosh, Wis., work to commence soon.

## ELEVATORS

*Notes Arranged Alphabetically by States.*

**Iowa, St. Anthony**—Younglove Construction Co. has closed contract for construction of a 25,000 bushel capacity grain elevator, for Makin and H. Harlain, of this city; work to commence soon; frame construction, veneered and corrugated iron.

**Minn., Mazeppa**—Albert Schreder plans to erect a grain elevator on his place this season.

**Neb., Sholes**—Farmers' Elevator Co., incorporated, capital \$25,000; John Gubbels, chairman.

**N. D., Antelope**—Farmers planning to organize a Farmers' Co. and will erect elevator.

**N. D., Borea**—Borea Farmers' Co-operative Elevator incorporated; capital \$25,000; J. A. Anderson.

**N. D., Chalma**—Farmers' Co-operative Grain Co., incorporated; capital \$25,000; Jeffe Schelde.

**N. D., Ruso**—Fire destroyed the Atlantic elevator here and other buildings; loss \$15,000.

**N. D., Sentinel Butte**—Sentinel Butte Farmers' Elevator Co., incorporated; capital \$50,000; Wm. Trester, J. H. Streeker.

**Wis., Madison**—Conklin & Sons have received permit to repair the elevator in the C. M. St. P. & R. R. yards; cost about \$1,000.

\***Neb., Courtland**—Contract awarded to G. H. Birchars, for erection of an elevator here, work to commence soon.

## CHURCHES

*Notes Arranged Alphabetically by States.*

**Iowa, Des Moines**—The Central Church of Christ have planned to erect an addition; cost, \$30,000.

**Iowa, Des Moines**—A large modern social service plant will be erected as part of the Central Church of Christ soon; 2-story; cost about \$30,000; D. F. Given, president of trustees.

**Iowa, Ida Grove**—The First M. E. Church will be razed at Ft. Dodge to make way for erection of a modern new \$70,000 church.

**Iowa, Iowa Falls**—Plans are underway for remodeling of Friends church.

**Iowa, Keokuk**—A 1-story, 40x50, church addition will be erected by the First Christian church, Rev. F. C. Lilly, pastor, 10th and Blondeau st., plans in progress by architects, H. E. Ratcliff, Dorsey building.

**Iowa, Manilla**—Work is nearing completion on the new M. E. church; A. R. Potter, contractor.

**Iowa, Marcus**—The Holy Name Catholic church plan to erect a \$65,000 new church building.

**Iowa, Wall Lake**—The German Lutheran congregation will erect a new church, 52x62, brick, the coming summer.

## MISCELLANEOUS

*Notes Arranged Alphabetically by States.*

\***Mont., Bozeman**—An important case before the city council recently was the question of granting the Pure Oil Co. of Minneapolis, permit to build and construct oil tanks on the property east of the old creamery, near Gallatin Valley station.

#### BIDS WANTED.

\***Iowa, Ottumwa**—Bids received by Horace A. Brown, of the Ottumwa water works, for the building of coffer dams, removal of old dams, necessary foundation excavation, and the erection of two concrete dams across the Des Moines river; bids received until noon, March 17.

**Minn., Warren**—Bids received by Rasmus Hage, city recorder, until 6 p. m., March 23, for the construction of an 80-foot by 4-foot diameter reinforced concrete chimney; check for 5 per cent; officially advertised in this issue of the Improvement Bulletin.

\***Minn., St. Paul**—Bids received by Oscar Claussen, commis-





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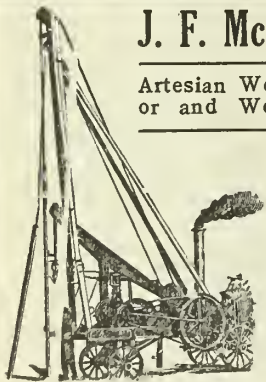
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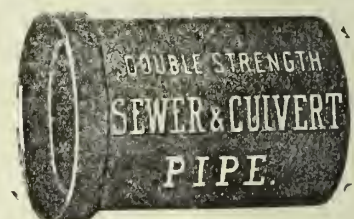


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sioner public works, until 5 p. m., March 17, for 20 lamp posts for the Earl st. bridge; check for 10 per cent.

#### CONTRACTS AWARDED.

**Iowa, Cedar Rapids**—Contract has been made with the Ford Paving Co., for cement for the sea wall around the island, at \$1.27 per barrel. Other bidders were: Percy Smith, \$1.28 per barrel; the Iowa Stone Co., \$1.30, with the stipulation that a discount of 2c per barrel could be made providing the cement was paid for within 10 days of the date of invoice, a bid from the W. G. Block Coal Co., was \$1.30 and the King Crown Plaster Co., bid was \$1.35, these figures all net price. The purchase will include about nine carloads of cement. Each car carries about 175 barrels; last year the city paid \$1.30 per barrel.

**\*Mont. Glendive**—Contract for riprapping the bank of the Yellowstone river above the big wagon bridge was awarded to Frank Oliver, whose bid was \$1.38 per cubic yard. One other bid, that of the William Henderson & Mack Co., of \$5.40 was received.

## SCHOOLS

*Notes Arranged Alphabetically by States.*

**Alta., Calgary**—The board of governors, of the University of Calgary are considering erection of a dormitory.

**Alta., Medicine Hat**—Arrangements will be made for building of a school in high school annex, a primary school in west corner of old townsite; school in Povell and primary school south of Central Park.

**Iowa, Montour**—Fire destroyed public school, loss \$2,000; insured for \$5,000; will be rebuilt.

**Iowa, Toledo**—All bids on the erection of Toledo's public school being too high, bidders were given opportunity of reducing bids; then if not satisfactory, new bids will be advertised for.

**Man., Winnipeg**—Plans are in progress by Architect E. D. Tuttle, 209 McArthur building, Winnipeg, for a 2-story brick school house, 34x88, cost \$13,000, fireproof, reinforced concrete, tile, common pressed brick, furnace heat, electric lights, common plaster, metal lath, corner bead, maple floors, fir finish. Bids taken in a month by architect.

**Minn., Virginia**—Gymnasium at the new southside school abandoned and two play rooms submitted; Bray & Nystrom, architects, Duluth, Minn.

**Mont., Wisdom**—State board of land commissioners, have ing machines; check for 10 per cent with each bid.

**Neb., Phillips**—Phillips is agitating question of erection of a new school house.

**Neb., Polk**—Special election will be held March 12, for purpose of ratifying the action of the meeting last week; also to discuss plans and specifications pertaining to new \$10,000 addition.

**S. D., Bonesteel**—\$16,500 school bonds voted and carried.

**Wis., La Crosse**—Council authorized the board of education to investigate the erecting of a new high school building at Prairie du Chien, committee will inspect other up-to-date schools before consulting architects.

**Wis., Ladysmith**—City is arranging to build a \$60,000 high school, to have an auditorium, gymnasium and automatic sprinklers for fire protection.

**Wis., Milwaukee**—Plans are being considered for erection of a \$50,000 school building.

**Wis., Sheboygan**—The German Concordia Lutheran college which burned recently, will be rebuilt soon at River Forest, (not a postoffice).

**Wis., West Racine**—The board of education have accepted plans for new school building; to cost \$100,000; bonds will be voted on.

#### BIDS WANTED.

**Iowa, Dubuque**—Bids received until 2:30 p. m., March 20, for an addition to northeast wing and new tin roof on the north Main building of the academy of the Visitation; plans on file at office of architect; T. T. Carkeek, room 17, Lincoln building, Dubuque, Iowa; bids taken by architect.

**Iowa, Early**—Bids received until March 20, 3 p. m., for erection of a brick school house for sisters; check for 6 per cent; plans and specifications on file at Citizens' State Bank; also with C. W. Burkhead, architect, Sioux City, Iowa; M. J. Hetherington, pastor.

**Iowa, Storm Lake**—Bids received until April 26, 1 p. m., for erection of a school building in township of Washington, Buena Vista county, Ray L. Cone, secretary; plans on file with secretary.

**Minn., La Porte**—Bids received until 8 p. m., March 26, for general contract work on consolidated school building district 43, Hubbard county, by board of education, bids opened March 27, 8 p. m.; E. F. Broomhall, architect, 710 Alworth

building, Duluth; copies of plans obtained from architect on deposit of \$15; plans on file at Builders' Exchanges St. Paul and Duluth, Minn.; check for 3 per cent; separate bids to be filed on general contract, plumbing, heating and ventilating; C. M. Dally, president, Elliott S. Scott, secretary; officially advertised in Improvement Bulletin this week.

**Minn., Pequot**—Bids received until 8 p. m., March 27, for general contract work and for plumbing, heating, and ventilating in 6-room brick school house, district No. 41, Crow Wing county; bids opened March 28, 8 p. m., plans prepared by architect, E. F. Broomhall, 710 Alworth building, Duluth, Minn.; on file at office of architect, deposit \$15; plans also on file at Builders' Exchanges St. Paul and Duluth, Minn.; certified check for 3 per cent; separate bids received for general contract work. O. M. Olson, president, J. P. Bakken, secretary; officially advertised in the Improvement Bulletin this week.

**Minn., St. Paul**—Bids received until March 24, 11 a. m., for furnishing material and erecting heating and ventilating plant in the Ames school building, city; plans on file at Builders' Exchange, St. Paul; check for 10 per cent; H. P. Keller, mayor, Alexander E. Horn, president school board.

**Minn., Winthrop**—Bids received until March 11, 12 m., for erection of school building in district No. 44, Sibley county, Minnesota, to be completed by Oct. 1, 1914; plans and specifications on file at National Bank, Winthrop, Minn.; Herman Thole, clerk.

**Mont., Harlowton**—Bids received until March 20, for erection of a \$1,200 school building here, H. F. Hanthora, clerk, school trustees, A. J. Dreyer, architect.

**Neb., Red Cloud**—W. J. Scrivner and Frank Peterson have gone to Grafton to submit bids on new high school building.

**Neb., Tobias**—Plans have been received for new high school and bids will be received until March 20, 6 p. m., for erection of same; plans on file at office of secretary of school board; bids for heating, plumbing and electrical taken separately; check for 5 per cent; address secretary.

**N. D., Minot**—Bids received until March 25, 8 p. m., for installation of plumbing and heating in school building; plans on file with architect, R. T. Frost, Minot, N. D., at clerk's office, Minot; also at Builders' & Traders' Exchange, Minneapolis and St. Paul, Minn., certified check 5 per cent; J. W. Thompkins, president board of education; S. W. Nicodemus, clerk.

**S. D., Dupree**—Bids received until March 25, 2 p. m., for sale of \$8,500 school bonds; check for \$200; L. W. Henderson, clerk, Independent school district of Dupree.

**Wis., Kewaunee**—New bids received until March 20, for the 2½-story fireproof high and grade school, 131x145, brick, district No. 1; plans by Robert A. Messmer & Bros., architects, Milwaukee, Wis.; cost \$50,000; bids taken by O. H. Bruemmer, Kewaunee, Wis.

**Wis., Madison**—At the meeting of the regents of the university of Wisconsin the business manager was authorized to ask for bids for excavation and foundation for the Physics building, liberal arts building, and soils building; also to ask for bids on superstructure as soon as plans were ready.

#### CONTRACTS AWARDED.

**Iowa, Livermore**—The Jensen Construction Co. has secured contract for erection of an 8-room school house, cost about \$26,000, modern throughout.

**Iowa, Waterloo**—Contract awarded to the H. A. Maine Construction Co., for construction of the Thomas A. Edison school, to be built in Westfield.

**Minn., West Corcord**—Contract awarded to F. E. Wright, for construction of addition of four rooms to the high school building, at \$9,620; plumbing contract to Distad Bros., at \$911; also for heating and ventilating \$2,947.

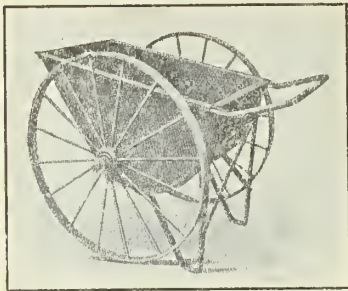
**Mont., Bercaill**—Contract awarded to Ed. Feldt for erection of a school building, 28x40; cost \$2,000.

**Mont., Bercaill**—Contract awarded to Ed. Feldt for erection of a 1-room school building, 28x40; cost about \$2,000.

**Mont., Butte**—Following bids were received for the Washington school building, J. R. Silver & Hugh Johnson, flat ceiling constr., \$84,160, beam constr. \$83,460; pressed brick, \$3,000 more; Charles C. Goddard, flat ceiling, \$85,000; beam, \$2,000, less; pressed brick, facing, \$2,990 more; Kraufgan & Frank, flat, \$93,900; beam, \$92,860; press brick, \$3,348; George M. Smith, flat, \$88,275; no bid on beam; press brick \$3,000; Nelson & Peterson flat, \$89,611; no bid on beam; press brick \$4,500; contract awarded to Silver-Johnson Co., for flat ceiling construction and addition of press brick facing; bids on plumbing and heating plant as follows: Butte Plumbing Co., \$26,543; two boilers instead of one; \$1,227 additional; with beam construction, \$517 more; Eschle Co., \$27,205, beam construction, \$570 more; two boilers \$905 more; McGill-Nevin Co. \$27,992; beam construction \$550 more; with added price for two boilers Harry L. Hanson, \$29,650; with reduction of \$520, if flat construction, Arnold Co., \$37,600; if beam construction, \$38,250; The Butte Plumbing Co. awarded contract. The Butte

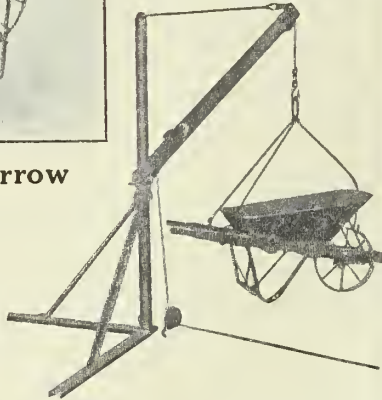


## CONTRACTORS' NECESSITIES



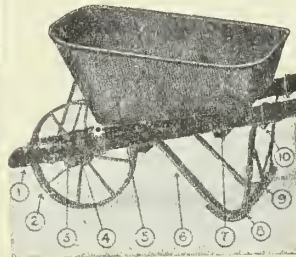
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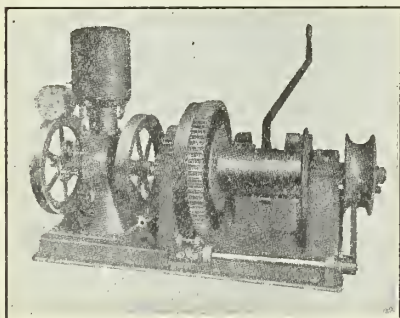
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- 6 Heavy Channel Steel Legs
- 7 Tested Clear Maple Handles
- 8 Extra Heavy Leg Shoes
- 9 Riveted Leg Braces
- 10 Patented Handle Clamps

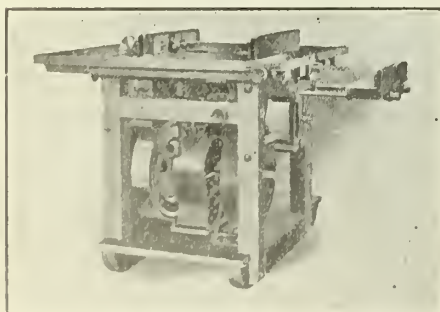
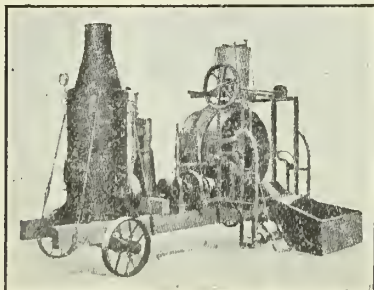


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Wholesale Grocery Co. awarded contract furnishing supplies to industrial school.

N. D., Minot—Contract for electric wiring of Minot school building awarded to the Minot Electric Co., at \$1,800.

N. D., Minot—Plans prepared by architect R. T. Frost, Minot, N. D., for erection of a 3-story fireproof school building, 75x86; cost \$46,000; contract awarded to Carl Bartleson, concrete foundation, pressed and common brick, pitch and gravel roof, stone cornice, d. s. and ribbed plate glass, hard wall plaster, steam heat, concrete flooring, white oak finish. boilers, blackboards, electric lights and bells, dynamo and motor, fire brick, fire escape, fireproofing, iron beams, metal or wire lath, plumbing, screens, skylights, telephone, tiling, ventilators, heating and plumbing bids rejected.

## GARAGES AND BARNS

Iowa, Independence—The Meyer-Cowell Auto Co. have sold their business to Wise-Yeager Auto Co. who will erect a modern garage.

Minn., Carlisle—Lundberg Bros. will erect a barn.

Minn., Gary—Ernesct Pinski will soon commence construction of a modern set of buildings on his farm.

Minn., Karstad—Fire destroyed barn of the Proulx farm; loss about \$7,000.

Iowa, Kellerton—N. B. Robbins plans to erect a modern garage.

Minn., Richmond—Mr. Nich H. Schreifels will build a modern barn in St. Nicholas, (not a postoffice).

Minn., Waconia—Albert Luebke will erect an addition, 18x70, to his large barn.

Mont., Poplar—Contractors commenced work on the garage building which is being erected by Dr. Atkinson; 50x84, concrete floors, steel front, modern throughout.

Mont., Roundup—M. M. Klein will soon commence erection of a modern garage, 50x100, native stone.

Minn., St. Cloud—A new modern garage, 75x110, will be erected by John H. Hurrell, work commenced, to be completed about April 1, 1914.

N. D., Hillsboro—Large barn of Lewis Bekkedahl burned.

Wis., Baldwin—Wm. O'Connell will build a large barn this spring in Palmer, (not a postoffice).

Wis., Clayton—A large barn will be erected by Mrs. Mary Haase, on her farm in town.

Wis., Elkhorn—Barn on the Burton Pony farm burned; loss \$4,000; W. H. Foster of Jamestown, N. Y., owner.

Wis., Fall Creek—Edw. Stubbe is hauling sand for erection of a new garage.

Wis., Fennimore—Logan Fisher will erect a modern garage building, 2-story, 40x60, work to commence soon.

Wis., Kellnersville—John Rindle will erect a barn soon.

Wis., Madison—Conklin & Sons have taken permits for alterations and improvements to their barn and ice house; cost about \$7,224.

Wis., Melrose—The O'Hearn Co. are remodeling the Jenewein building into a modern garage.

Wis., Viola—J. B. Kinder has purchased a site and will erect a modern garage soon as weather permits.

Wis., Viroqua—Ole Jackson will erect a large basement barn.

### CONTRACTS AWARDED.

Minn., Motley—Ed. Newkirk has plans for barn, 30x70; Chas. Smith of Leader, contractor.

Minn., Rushford—Elias Johnson will erect a large barn, Himle & Benson, contractors.

Minn., Tracy—Stockholders of the Tracy Garage Co. will enlarge their garage, contract let to Woodruff & Thompson, to be 50x175, modern.

## RAILROADS

Notes Arranged Alphabetically by States.

Alta., Edmonton—Canadian Northern will build six branch lines this year, total about one thousand miles.

Iowa, Mason City—New Great Western station will be 50x149, 2-story in center, with offices, second floor, modern, work to begin in a few weeks, ready July 1; brick, cost \$50,000.

Neb., Curtis—Burlington road will build a \$35,000 depot here, work to begin May 1.

Wis., Augusta—Roy Hebard received contract to build Chiriqui railway, Panama, for Panama government; fifty-one miles, steam road.

Minn., Duluth—Grading on right-of-way of the new Grand Marais, and Northwestern through Cook county will begin as early as possible, clearing completed soon, rails laid for forty miles, probably this year.

Mont., Livingston—Large ventilating plant will be installed by Northern Pacific in Blossburg; cost, \$100,000; four floors of 100-horsepower. B. O. Johnson, superintendent.



**Mont., Thompson Falls**—Work is rushed day and night on big power plant to supply electric current for Milwaukee road.

**Neb., Hastings**—Union Pacific has purchased two blocks north of passenger station and surveyors are at work on the tract.

**Neb., Lincoln**—Northwestern road, on agreement with state railroad commission, will spend \$40,000, improving station facilities and construction of about fifty miles of new track-age in various towns.

**Neb., Neligh**—Work on the new Chicago Northwestern station will begin soon.

**Neb., North Platte**—Union Pacific will probably enlarge yard here and establish a repair shop.

**Neb., Royal**—A new station after fire will be built in this town.

**Neb., Stanton**—Northwestern station will be remodeled and enlarged, work to be done by Sept. 1, 1914.

**Neb., York**—Burlington will start work on new freight house as soon as weather permits.

**N. D., Mandan**—Northern Pacific will build large sand house, 22x90, brick and frame, 1-story.

**Sask., Regina**—Grand Trunk Pacific will build a hotel here, 9-story, cost \$1,000,000.

**Wis., Belgium**—Fire destroyed the C. N. & W. station, will be rebuilt.

**Wis., Eau Claire**—Figures are being taken on equipment of track on New Altoona extension, of C. V. Ry. L. & P. Co. line; Folk Manufacturing Co., Milwaukee, bidding on frogs, switches, etc.

**Wis., Glennwood City**—Soo will build 400 feet concrete platform; citizens will start movement for new cut stone railroad station.

**Wis., Stevens Point**—Old Wisconsin Central car shops, vacant 12 years, have been leased to Railway Material Co., Chicago, to make brake shoes for cars and locomotives; will open about April 1, shops to be remodeled.

#### BIDS WANTED.

\***Minn., Thief River Falls**—Bids received by H. W. Protzeler, secretary, until noon, April 2, for 20 miles of single track railway for the Minnesota Northwestern Electric Railway Co. Check for \$1,000. Officially advertised in this issue of the Improvement Bulletin.

## BUSINESS BUILDINGS

*Notes Arranged Alphabetically by States.*

\***Alta., Medicine Hat**—Plans are being made by President Pearson and Wm. Davison, of the Pure Ice Co., Ltd., for purchase of site for erection of a business building. Steel, brick, concrete and glass construction; storage capacity of 150,000 cubic feet; cost about \$125,000.

**Iowa, Dubuque**—Work of razing the 1-story frame building, on site of which Mettle Land Co. will erect a 3-story brick building.

**Iowa, Ft. Dodge**—John Hower is planning to erect a building, brick, 1-story, 36x70.

**Iowa, Grinnell**—Grinnell Savings Bank is nearing completion; to cost about \$40,000; Merchants' National Bank will soon commence erection of a new \$60,000 building; the Grinnell Herald is building a large 3-story brick; Walter Hastings has announced plans to build a 3-story brick block.

**Iowa, Hubbard**—C. A. Clancy & Son Hardware Co. will erect a 2-story fireproof brick building.

**Minn., Adams**—Work will commence soon on erection of new building for J. P. Kresbach.

**Minn., Bemidji**—Hoganson Bros. will soon commence work on a large brick building, 1-story, glass front, red pressed brick, to be completed by June 1.

**Minn., Brainerd**—Fire damaged the Levant's department store about \$19,000.

**Minn., Chatfield**—Fire destroyed the Towey & Hoffman furniture store; insured \$2,500.

**Minn., Cloquet**—Work has begun on erection of store building for Algot Christianson; 1-story, 24x40, Messrs. Frank and Peter Delwo, builders.

**Minn., Fergus Falls**—W. P. Bayley will erect a large addition to present building.

**Minn., Foley**—Geo. Kmich of Gilmanton, (not a postoffice), is preparing to erect a large modern store building, 45x80, full basement.

\***Minn., Holt**—Adolph Sollum will erect a new store building here.

**Minn., Hopkins**—Wm. Oltman has plans for a 40-foot addition to rear of his store building, cement block.

**Minn., Montevideo**—C. H. Budd will build two cement block store buildings, 1-story.

**Minn., Pine Island**—Fire destroyed Record Printing office

building and damaged store owned by R. K. Irish; loss \$2,000; covered by insurance.

\***Minn., Staples**—The Dower Lumber Co. expect to begin erection of a large storing shed, 60x130, 2-story.

\***Minn., St. Charles**—Vandeusen & Stevens have drawn plans for erection of a store building and garage for H. G. Stevens; brick, 1-story and basement, concrete floors, 50x80.

**Minn., Thief River Falls**—Fire destroyed the following business buildings here, Thief River Fish Co., H. B. Hanson, cigar factory; Lang Floral Co., and the Singer Sewing Machine Co., total loss about \$10,000; insured at \$4,000.

**Minn., Thief River Falls**—Citizens' State Bank of this city will erect a new building, after fire.

**Minn., Two Harbors**—Slogan Bros. have started erection of addition to their store building; workmen are busy remodeling the People's Bargain Store for a confectionery store.

**Minn., Willow River**—Fire destroyed the saloon of E. W. Olson, loss \$2,000; insured \$1,000; store owned by Verne Pembleton; loss \$1,000.

**Mont., Baker**—Ed. Lake will build a store, 25x40.

**Mont., Billings**—Work has been resumed on the Montana power house and the Farmers' & Traders' Loan Co. building; two buildings are being erected by Geo. Garlow.

**Mont., Delphia**—Fire destroyed store and postoffice owned by Geo. Spendiff.

**Mont., Glasgow**—The Armstrong Phelps real estate firm will erect an office building.

**Mont., Great Falls**—Plans have been filed in office of the city building inspector, Geo. S. Wells, for a new warehouse to be erected by the St. Anthony & Dakota Lumber Co.; frame, 40x160, 2-story, and basement; cost about \$3,500.

**Mont., Harlowton**—The Montana Lumber Co., will soon erect an extension to the rear of their building, 100x150.

**Mont., Huntley**—G. J. Kobelin will erect a brick business building.

**Mont., Ronan**—Geo. Covalt of this place has decided to erect a large and modern office building.

**Mont., Ronan**—The Ronan State Bank and business men are interested in the proposition which calls for construction of a solid block of offices from the rear of the bank building to the Hart & Manning pool hall; work to start early in the spring.

**Neb., Omaha**—Contract for the United States National Bank was awarded to James Stewart & Son, of St. Louis, Mo., at \$198,700, next lowest bid being W. H. Parrish of Omaha, at \$202,738.

**Neb., Dodge**—C. C. Gilbert is making preparations for erection of a concrete building.

**Neb., Hastings**—The Union Cafe, under management of G. D. Pappas will undergo extensive improvements, made modern throughout.

**Neb., Lincoln**—Fire destroyed North Star Grocery building, insured; owned by J. H. Wahl.

**Neb., Sidney**—Excavation has been started for erection of a new building for M. Ramella, concrete, 1-story.

**Neb., Silver Creek**—S. M. Torrance will build another story to his drug store, and remodel rooms below, modern throughout, electric lights, steam heat.

**Neb., So. Sioux City**—Fred Hershon has completed blue prints for new store building to be erected by J. W. Hazelgrove; bids will be asked for soon.

**Neb., St. Edward**—Fred Lehmann will erect a modern business building.

**Neb., Thurston**—The Rihanek Hardware Co., are having a galvanized iron addition erected at rear of their store building.

**N. D., Grand Forks**—Permit issued for erection of a building on site of the Marmos restaurant; owned by Thomas Roycraft.

**N. D., Grand Forks**—Plans on file for bank building for the Security Bank of Sheyenne, at Builders' Exchange, Grand Forks, Haxby & Gillespie, architects, Fargo, N. D.; bids received until April 4.

**N. D., Plaza**—Fire destroyed the Mandagn Drug Store, postoffice and land office of the Carlson Land Co.; loss about \$10,000.

**S. D., Piedmont**—W. A. Priest store burned; loss \$5,000.

**Wis., Grantsburg**—Martin Griswold has closed contract with Aug. F. Johnson for erection of a 1-story brick store building, 36x90, modern; cost about \$5,000.

**Wis., Manitowoc**—Peter Broehl and Joseph Pekel will erect a new restaurant building; plans by architect Earl Miller; modern throughout.

**Wis., Milwaukee**—An 8-story and basement business building will be erected by Alfred E. James, 715 Astor st.; 50x120, architects Kirchoff & Rose, 1311 Majestic building, will soon take figures; brick, stone, concrete, composition roof, structural iron.

**Wis., Superior**—Geo. Leamon, proprietor of the City Bakery will make extensive improvements to his bakery; cost about \$10,000; contract let to A. Dauplaise; work to start at once.



Minneapolis Branch:  
522 ANDRUS BUILDING  
Phone: T. S. Center 5112  
Northwestern: Nic. 5112

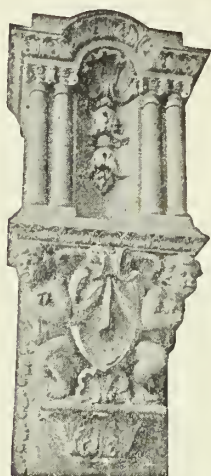
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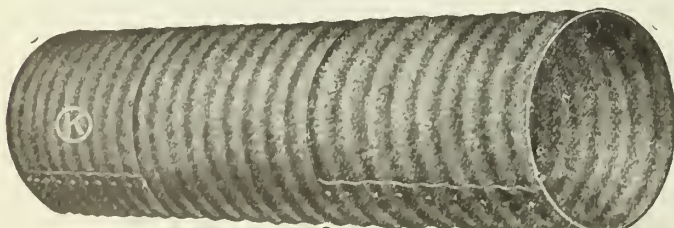
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St. Paul -- -- Minn.



**Wis., Two Rivers**—Schneider block will be remodeled; white tile front, plate glass show windows, steel ceiling, linoleum floors, indirect lights, revolving doors, modern display cabinets, steam heat; all modern.

#### BIDS WANTED.

**Iowa, Sioux City**—Bids are being received in a new warehouse for the Palmer Co., to be opened about April 1, and contract awarded.

**Mont., Roundup**—Bids received until March 10, for erection and completion of a restaurant for J. H. Daniels; plans on file with architect J. H. Grant, Roundup, Mont.

**N. D., Grand Forks**—Plans on file for remodeling of the store building for Max Rabinovitch, at Grand Forks Builders' & Traders' Exchange, N. D., architect, W. J. Edwards, Grand Forks, N. D., time not given.

**N. D., Sheyenne**—Plans on file for the bank building of Security Bank of Sheyenne, at Builders' Exchange, Grand Forks, N. D.; Haxby & Gillespie, architects, Fargo, N. D.; bids received until April 4.

**S. D., Huron**—Bids will soon be asked for on the new city National Bank building, 25x80; exterior Bedford limestone, reinforced concrete floors and ceilings, front doors bronze, vault, modern throughout; cost about \$17,000.

#### CONTRACTS AWARDED.

**Mich., Bessemer**—Contract awarded to Wm. Nartens for erection of a 2-story building for M. A. Byrne, store on ground floor.

**Minn., Crookston**—Contracts for the Polk county bank building, awarded as follows: steam heat and plumbing let to Crookston Heating & Plumbing Co., electric to Electric Shop, Crookston; Otto Eichoff, general contractor, Crookston; C. H. Johnston, architect, St. Paul.

**Minn., Elbow Lake**—Larson Bros., of Starbuck, (p. o.) have contract for construction of a brick block, by Gunder and Ole Hanson.

**Mont., Denton**—First State Bank building, brick, 1-story, 25x46; cost \$5,400; contract to B. Stenton, Billings, Mont.; steel beams, tile and concrete fireproofing, common red brick, furnace heat, electric lights, tin roof, sheet metal cornice and ceiling, patent plaster, Lamberts varnish, plate glass and wired maple floors, fir finish; address E. Clinton, Denton, Mont.

## RESIDENCES

*Notes Arranged Alphabetically by States.*

**Iowa, Earlville**—Charles Hamblin will build a modern residence.

**Iowa, Inawa**—Weir Whitmore will erect a modern bungalow.

**Iowa, Moulton**—R. C. Elvin will erect a modern dwelling here.

**Iowa, Tipton**—J. W. Argo is planning to erect a modern cottage.

**Minn., Atwater**—Christ Larson of Rosendale, (not a post-office) will build a new dwelling house.

**Minn., Atwater**—Louis Nordin will erect a concrete house this spring at Lake Elizabeth, (not a postoffice) also Peter Gibson and E. J. Edmund will build houses.

**Minn., Henderson**—Fred Melius has taken out building contract for the following residence; Wm. Kruske, Scott county, house; modern; Martin Burger, residence, 26x30; Herman Lieske, residence, 26x28; John Barke, residence, 32x30.

**tion of a bungalow for Monta Farris. Cedar Bluffs**—Paul Kellar will erect a new dwelling. **Cambridge**—Bert Schroeder of Eustis is having excavation made for erection of a bungalow. **Homer**—J. C. Larson is erecting a modern residence. **Eustis**—Chris Schurr has started excavation for a dwelling. **Grand Island**—John Knickrehm is contemplating erection of a dwelling; G. J. Bauman will erect a dwelling, modern. **Glenville**—Pauline—Andy Peterson is erecting a dwelling. **Hayes Center**—Chas. Musil will erect a modern house. **Hastings**—Geo. Hutchinson is building a modern cottage.

**Minn., Litchfield**—C. W. Lohn will erect a residence, modern.

**\*Neb., Wayne**—C. Clasen has contract for erection of a residence for Homer Scaace; work to start soon. **Wayne**—Peter Reifenrath has let contract for erection of a large modern residence, 30x30. **Stanton**—Ed. Daniels has plans completed for erection of a modern bungalow. **Rushville**—Ernest Amende is building a modern house, 24x28, 1½-story. **Pierce**—Sam Schwerin has begun work on a modern residence, 2-story. **Neligh**—Report last week on contract being let to an Oakdale man, A. J. Blesh, is mistake, as contract was let to Howard Kester, of Neligh, for building cottage for Will May. **Berlin**—John Bredehoft has let contract for erection of a modern residence to Mr. Smoots, of Nebraska City. **Lodge**

**Pole**—Louis Pierce has begun excavation for a residence. **Kearney**—Foundation for erection of a cottage for George Harris has been laid. **Hastings**—Tom Davidson has contract for erection of a 6-room bungalow for John Paris. **Ewing**—Dewitt Gunter is building a modern house. **David City**—Work has commenced on erection of a modern residence for Henry Hilger. **Columbus**—Work has started on erection of a cottage, bungalow style, for Karl Becker, cost \$3,000. **Bristow**—J. W. Blair has plans for erection of a modern bungalow. **Blair**—Fred Siert has contract for erection of a modern dwelling for Fred Nemetz, 2-story. **Bloomfield**—H. J. Johnson has closed contract with Peter Gran for a modern residence. **Auburn**—T. E. McKnight will erect a modern residence in the near future. **Auburn**—A modern residence will be erected by Henry Simpson.

**\*Neb., Weeping Water**—G. H. Dennis has contract for erection of a residence for Ed. Pankonin; 2-story, frame, 28x30, three porches, southern yellow pine finish.

**Wis., Cuba City**—J. L. Conlon will erect a 5-room bungalow.

**Wis., Eureka**—Bids received until March 19, 2 p. m., for erection of addition to the dwelling house of the Eureka Creamery, plans on file at office of said creamery, to be completed June 1; A. C. Hoover, secretary, route 1, St. Croix Falls, Wis.

**Wis., Fond du Lac**—Contracts for the brick and hollow tile residence for H. R. Potter, let as follows; carpenter work to Stephen Andrews, mason contract, Hutter Construction Co., all of Fond du Lac; heating, plumbing and electric work not let yet; cost \$10,000.

**Wis., Menomonie**—Martin Krogstad will erect a modern dwelling at Irvington.

**Wis., Superior**—Three building permits were issued to the following; Fred Berthiaume, for 2 flats, 18th st. and John av., cost \$16,000; W. B. Banks, for a \$3,500 residence, at 2115 Banks av., and to A. W. Pagander, for a \$1,500 residence, at 2219 Missouri av.

**Minn., Litchfield**—J. Kalkenner is contemplating erecting a modern residence.

**Iowa, Marion**—J. C. Fulkerson has broken ground for erection of a modern residence.

**Minn., Mazeppa**—Paul Ford has given commission to C. L. Grover, Zumbrota architect, to draw plans for erection of a 6-room bungalow.

**Iowa, New Hampton**—A. A. Hughes will erect a modern residence.

**Minn., Osseo**—A. C. Nessa has contract to build a residence for M. J. N. Schneider of Black River Falls, Wis.; cost about \$3,000.

**Minn., Sartell**—Residence of Mrs. Francis Grafton burned, loss several thousand dollars.

**Minn., Sauk Center**—Alfred Anderson will erect a modern residence.

**Minn., Shakopee**—Attorney Joseph J. Moriarty will build a modern residence, 2-story, soon as weather permits.

**Mont., Great Falls**—A. H. Gray secured permit for erection of a 2-story dwelling; cost \$2,500.

**Mont., Harlowton**—Norman Good is building a 5-room cottage.

**Neb., Bloomfield**—Johnson Bros. are building a set of buildings for Frank Vanness. **Columbus**—Grand Prairie item—Karl Becker will erect a residence. **Cody**—Wm. Hook will build dwelling. **Endicott**—H. E. Fairchild will build residence, modern. **Fairbury**—T. A. Johnson of Fairbury has contract for \$5,000 farm residence for H. E. Fairchild. **Fairbury**—Harry Gladman will erect a modern dwelling. **Hay Springs**—R. F. Kitterman will erect a modern dwelling. **Kearney**—Geo. Harris will erect a dwelling soon, modern. **Long Pine**—A. F. Dorothy plans a dwelling.

**Neb., Lincoln**—H. H. Zoller received permit for erection of a dwelling; cost \$1,000; W. J. Livingston, dwelling, \$2,200. **ville**—Andy Peterson is erecting a modern house near Pauline, Heye Flesher, contractor. **Wayne**—E. A. Surber has commenced erection of a dwelling, modern. **Ulysses**—H. C. Byam has commenced erection of a house, 14x22, with kitchen, 12x12; Henry Kolb, contractor. **Hastings**—Geo. Hutchinson is building a modern 6-room cottage. **Grand Island**—G. J. Baumann plans to erect a new house. **Grand Island**—John Knickrehm will erect a residence soon. **Anselmo**—Henry Kelly will erect a modern residence, brick. **Potter**—Miss Lena Stranberg is building a cottage. **Bridgeport**—R. A. Riddle has contract for erection of a bungalow for Monta Farris, 24x42, modern architecture.

#### BIDS WANTED.

**\*S. D., Kranzburg**—Bids received until April 1 for erection of a residence for the Catholic congregation of this city; 2-story, brick. Plans on file with Rev. Jos. Zimmerman, or at office of architect, M. A. Hockman, Watertown, S. D. Check for 2 per cent. Officially advertised in the Improvement Bulletin, this week.



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## INDUSTRIAL PROGRESS

### GERMAN USE OF IRON FURNACE SLAG.

The utilization of iron furnace slag is well developed in Germany, and the problem of its further utilization is receiving the attention of the Prussian government and the Association of German Iron Founders.

It is used at present in two basic forms: (1) In solid form; and (2) in granulated form, or as so-called slag sand. In solid form it serves for highway and railway construction and as a body material for concrete; granulated, it is used for making building blocks, bricks, tiles, etc., and for the manufacture of cement. Slag is also employed to a lesser extent as a raw material in glass making and in the production of artificial marble and artificial pumice stone.

When used in solid form the slag is run off from the furnace into sumps, where it is allowed to cool slowly in large blocks. The slower the cooling, the less brittle is the product. So-called basalt slag is obtained by a very slow process of cooling. The blocks are sometimes used as such, but are usually broken into rubble of the desired form and size by hand or in a stone crusher.

### SLAG AS A ROAD-MAKING MATERIAL.

Experiments have been made in the past with the use of slag paving blocks, but little or nothing seems to have come of them. The usual practice is to use slag in rubble form for road making, the road being constructed after the system of macadam, the slag simply replacing the usual crushed stone. The slag must be of a kind not too susceptible to disintegration through the action of the atmosphere. As in all cases where it is used in solid form, slag is employed for road making only in regions near the place of its production. Its use ceases to be economical as soon as any considerable transportation charges are involved. Slag roads are most frequent in Northwestern Germany, a region which is in proximity to an iron-making district and is furthermore poor in natural rock and stone.

### BODY MATERIAL FOR CEMENT.

The special aim of the Association of German Iron Founders in its propaganda for the utilization of furnace slag is to encourage its use as a component of concrete in the place of gravel, crushed stone, etc. In this field, the association writes, very favorable results have already been obtained in connection with the erection of large foundries in Germany. At the behest of the Iron Founders' Association the Prussian minister of public works has ordered exhaustive tests of slag concrete to be made at the Royal Prussian Material-Testing Station near Berlin. Investigations will be made as to reliable methods for determining the availability of particular slag for use in concrete. Not all slags can be used for this purpose, as some crack and fall apart in time.

### PLANT FOR MAKING SLAG BRICKS.

The slag sand is dumped from the cars into a pit outside the plant, whence it is lifted by a mechanical conveyor to a mixing apparatus on the third floor. The lime is introduced into the mixing apparatus through a hopper equipped with a device for regulating the mixture. When thoroughly mixed, the material falls through a double chute that distributes it in two piles on the second floor, where it is allowed to lie undisturbed for some time. The material, being then ready for pressing, is shoveled into a hopper, which feeds it into a press on the ground floor. Here it is formed into blocks under high pressure. The blocks are then loaded on trucks, which are run into hardening furnaces. The hardening process takes place over night. The required steam is taken from the boiler that furnishes steam for the power plant during the day. Such an establishment is calculated to turn out one thousand to one thousand two hundred average sized blocks each working hour. It is said of bricks made from slag that, as compared with glazed earthen bricks, they have a greater porosity and accompanying permeability. This is said to suit them especially for the construction of dwelling houses. Their strength increases with age.

## RECENT LEGAL DECISIONS

### TIME OF FILING LIEN.

Where a mechanic's lienor filed his lien and started action to foreclose on December 7, 1908, and did nothing further in the action until May 8, 1909, when the summons and complaint were filed, and never filed notice of lis pendens until December, 1910, there were such laches and lack of diligence in prosecuting the action as amounted to a waiver of his lien as to purchasers in good faith for value, and without notice.—Glass vs. Stark, supreme court of Wisconsin, 145 Northwestern 236.

### "FURRING."

Where a contract for a school building required plaintiff to furnish furring for plaster ceilings, metal plaster partitions, and metal lathing, and also declared that building terms used should have the meaning set down to them in a particular dictionary of architecture and building, and the definition of the word "furring" in such work was "a light framework of simple strips to give a semblance of constructive form by means of some plastic material on a frame of the necessary shape," such definition was itself ambiguous; and hence the court could properly admit expert evidence to determine whether such work included steel work attached to trusses consisting of strips of bars of steel three inches in width by three-eighths of an inch thick, and weighing approximately three pounds to the foot, to which other strips were tied to sustain metal lathing and plaster finish. Where a contract for a school building required that plaintiff furnished furring for plaster ceilings, such term did not include steel framework, inclosing beams or trusses-consisting of strips of bars of steel three inches wide by three-eighths of an inch in thickness, which steel work was intended to support channel or angle iron, to which metal lathing was attached to receive the plaster or finish; such steel work being rather a part of the structural iron work of the building. Lasar Manufacturing Co. vs. Pelligreen Construction & Investment Co., St. Louis Court of Appeals, Missouri, 162 Southwestern 691.

### BUILDING CONTRACTOR'S BOND.

A departure from the terms of the initial draft of a contract for the construction of a public building held not to release the contractor's surety, though the change was made after the bond was signed and before it was delivered where the terms of the bond applied alone to the executed building contract; the bond having been delivered by one to whom it had been intrusted for that purpose, with full knowledge of the change.—Cortright Metal Roofing Co. vs. Merten, supreme court of Nebraska, 145 Northwestern 261.

### ARCHITECT'S RIGHT TO LIEN.

While an architect is not entitled to a mechanic's lien for drawing plans alone, yet when he both draws plans and superintends construction he is entitled to a lien for the value of both plans and superintendence.—Spannahke vs. Mountain Construction Co., supreme court of New York, 144 N. Y. Supp. 968.

### NEW PATENTS.

The following patents were issued last week to Minnesota and Dakota inventors, as reported by Williamson & Merchant, patent attorneys, 925-933 Metropolitan Life building, Minneapolis, Minn.:

M. A. Christenson, Northfield, Minn., reinforced tie; Andrew Dahlberg, Wyoming, Minn., land marker; A. J. Gray, St. Paul, Minn., bushing; Edward Horr, Butler, S. D., feed mill governor; H. E. Hoines, Minneapolis, Minn., grain cleaning mill; A. J. Johnson, Lead, S. D., heater and foot rest for vehicles; P. A. Johnson, Minneapolis, Minn., cultivating machine; U. D. Kenworthy, Zim, Minn., marker; G. F. Matzner, Minneapolis, Minn., shoe heel; H. V. Roberts, Chisholm, Minn., heat insulated receptacle; W. S. Shafts, Faribault, Minn., stitch-down shoe; H. E. Chedd, Minneapolis, Minn., changeable exhibitor; E. H. Tracy, Cass Lake, Minn., combined lock and latch; J. Ulrich, Beardsley, Minn., back fad; C. C. Van Dyke, St. Paul, Minn., package tie; D. L. Williams, Blanchard, N. D., grain door; S. Carlson, Elk Point, S. D., seed corn tester; S. Carlson, Elk Point, S. D., rack.



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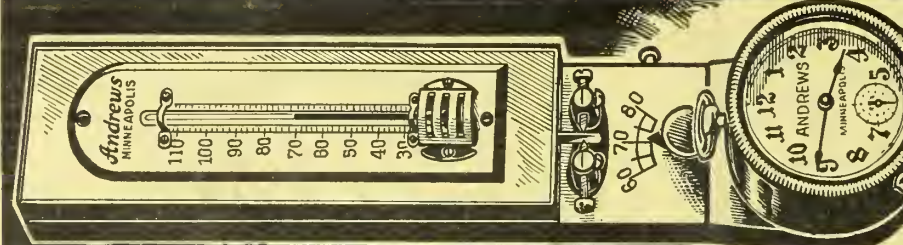
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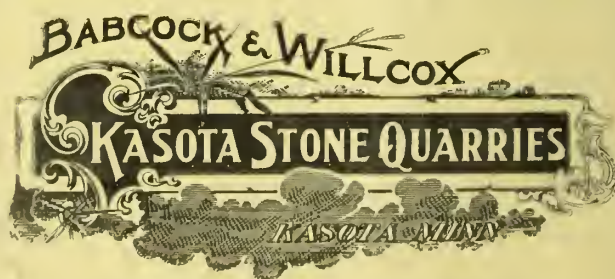


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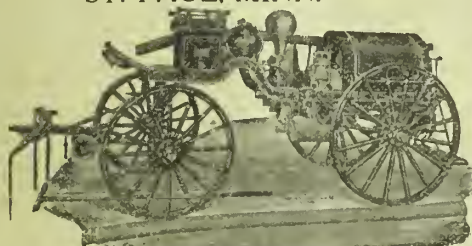
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General Offices: Chicago

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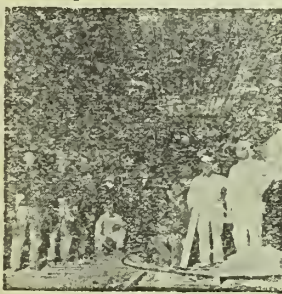
are the most scientifically designed of all types of flat slab construction. They combine the advantages of all other girderless floors without their defects.

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St. Paul Office, Pioneer Building  
T. F. McCORMICK, Manager



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IRON AND STEEL

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Channels, Angles, Reinforcing Bars.

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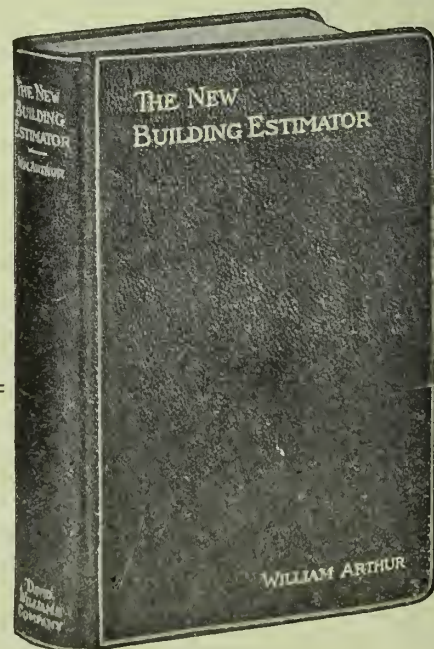
MINNEAPOLIS, - - - MINNESOTA

## ARCHITECTS AND CONTRACTORS

throughout the Northwest are requested to send us their correct name and street address. We ask this with the view of correcting and enlarging our directory of architects and contractors.

New architects and contractors, and those who have changed address, especially invited to respond, so that the new directory may be complete and reliable.

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A Weekly Journal of Construction, Engineering and Architectural News Founded by Harold C. Chapin

Volume XLVII.

Minneapolis, Minn., March 21, 1914.

Number 16

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Tel. N. W. Main 3902.  
St. Paul, Minn.—404 Scandinavian-American  
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vertisements received up to Thursday noon the  
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### ARCHITECTURAL MODELING.

K. F. Lott & Co..Mpls. and St. Paul, Minn.

### ARCHITECTS' SUPPLIES.

Minneapolis Blue Prtg. Co....Mpls., Minn.  
Rogers & Co.....Minneapolis, Minn.

### ASBESTOS AND MAGNESIA PRODUCTS.

H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
Krieger-Jamar Co.....Duluth, Minn.

### ARTESIAN WELLS.

J. F. McCarthy.....Minneapolis, Minn.  
S. Swenson Artesian Well Co.....  
.....Minneapolis, Minn.

### BANKS.

Northwestern National Bk....Mpls., Minn.

### BANK AND STORE FIXTURES.

Flour City Ornamental Iron Works.....  
.....Minneapolis, Minn.  
A. Moorman & Co.....St. Paul, Minn.  
Northwestern Fixture & Cabinet Co.....  
.....Minneapolis, Minn.

### BOILERS.

Andrews Heating Co....Minneapolis, Minn.  
Associate Mfrs. Supply Co.....Mpls., Minn.  
Central Supply Co.....Minneapolis, Minn.  
Crane & Ordway Co.....St. Paul, Minn.  
Hasey Heating Co.....Minneapolis, Minn.  
McDonnell Boiler & Iron Works.....  
.....Des Moines, Iowa

### BONDS—SURETY.

Hood & Penney Co.....Minneapolis, Minn.  
Wm. B. Joyce & Co....Mpls.-St. Paul, Minn.  
Fidelity & Deposit Co..Mpls.-St. Paul, Minn.

### BRASS GOODS.

Central Supply Co.....Minneapolis, Minn.  
National Mfg. & Supply Co....Mpls., Minn.

### BRICK AND TILE.

American Brick & Tile Co..Mason City, Ia.  
Arnegard, Ole.....Hillsboro, N. D.  
Barber Asphalt Paving Co..Des Moines, Ia.  
Belt Line Brick Co.....Minneapolis, Minn.  
Boukind-Carlson Brick Co.Crookston, Minn.  
Chaska Brick & Tile Co....St. Paul, Minn.  
Crookston Brk. & Tile Co..Crookston, Minn.  
Dickinson Brick Co.....Dickinson, N. D.  
Flint Brick Co.....Des Moines, Ia.  
Hebron Fire & Pressed Brick Co.....  
.....Hebron, N. D.  
Hydraulic Press Brk. Co.Minneapolis, Minn.  
Johnson, Jackson & Corning Co.....  
.....Minneapolis and St. Paul, Minn.  
Mason City Brick & Tile Co.Mason City, Ia.  
National Fireproofing Co.....  
.....Minneapolis, Minn., and Chicago, Ill.  
Northwestern Fireproofing Co..Mpls., Minn.  
A. C. Ochs Brick & Tile Co.....  
.....Springfield, Minn.  
Red River Valley Brick Corporation.....  
.....Grand Forks, N. D.  
Shakopee Cement Lime Co..St. Paul, Minn.  
Sioux City Brick & Tile Works.....  
.....Sioux City, Ia.  
Standard Salt & Cement Co..Duluth, Minn.  
St. Paul Lime & Cement Co.St. Paul, Minn.  
Twin City Brick Co..St. Paul-Mpls., Minn.

### BRIDGES.

American Bridge Co....Minneapolis, Minn.  
Corrugated Bar Co.....St. Paul, Minn.  
Crown Iron Works Co.....Minneapolis  
Minneapolis Steel & Mach. Co..Mpls., Minn.  
N. W. Concrete Steel Co.Minneapolis, Minn.  
St. Paul Foundry Co.....St. Paul, Minn.

### BUILDING MATERIAL.

Barber Asphalt Paving Co..Des Moines, Ia.  
Baxter Sash & Door Co.....Duluth, Minn.  
N. B. Cagley & Co.....Minneapolis, Minn.  
Carr-Cullen Co.....Minneapolis, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
H. W. Johns-Manville Co.....  
.....Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co..Mpls. and St. Paul, Minn.  
Landers-Morrison-Christensen Co.....  
.....Minneapolis, Minn.  
Osgood & Blodgett Mfg. Co..St. Paul, Minn.  
Shakopee Cement Lime Co..St. Paul, Minn.  
The Northwestern Lime Co..St. Paul, Minn.  
Standard Salt & Cement Co..Duluth, Minn.

### BUILDERS' SPECIALTIES.

Dunlop, Moore Co.....Duluth, Minn.  
Palne & Nixon Co.....Duluth, Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
Thomson-Williams Co.....Duluth, Minn.  
Waterloo Register Co.....Waterloo, Ia.

## The Buyer's Guide and Classified Directory of Advertisers

### CEMENT.

Atlas Portland Cement Co., New York,  
N. Y., Chicago, Ill., and Minneapolis, Minn.  
Carney's Cement Works....Mankato, Minn.  
Fowler & Pay....Mpls. and Mankato, Minn.  
Landers-Morrison-Christensen Co.....  
.....Minneapolis, Minn.  
N. W. Lime Co..Mpls. and St. Paul, Minn.  
Shakopee Cement Lime Co..St. Paul, Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
Speakes Lime & Cement Co..Superior, Wis.  
St. Paul Lime & Cement Co..St. Paul, Minn.

### CELLS, STEEL.

Avery Steel & Iron Co..Minneapolis, Minn.  
Crown Iron Works Co.....Minneapolis  
Diebold Safe & Lock Co....St. Paul, Minn.  
Minneapolis Steel & Mach. Co..Mpls., Minn.

### CEILING, STEEL.

Canton Steel Ceiling Co..Minneapolis, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### CHAIRS, OPERA.

Northern Theatre Supply Co..Mpls., Minn.

### COAL CHUTES.

Crown Iron Works Co.....Minneapolis  
Enterprise Iron Works....Albert Lea, Minn.  
Gardner Hardware Co.....Minneapolis, Minn.  
Majestic Furnace & Fdy. Co..Mpls., Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
Waterloo Register Co.....Waterloo, Ia.

### COLD STORAGE PLANTS.

Chas. A. Berger.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.

### COLUMN CLAMPS.

O. F. Symons & Co.....Minneapolis, Minn.

### CONCRETE CONSTRUCTION.

Corrugated Bar Co.....St. Paul, Minn.  
C. A. P. Turner.....Minneapolis, Minn.

### CONCRETE MACHINERY.

Nels Erickson.....Minneapolis, Minn.  
Eureka Machine Co.....Lansing, Mich.  
G. E. Ingersoll & Co.....St. Paul, Minn.  
Koehring Machine Co.....  
.....Minneapolis, Minn., and Milwaukee, Wis.  
Standard Salt & Cement Co..Duluth, Minn.  
Jaeger Machine Co.....Columbus, Ohio  
Raymer Hardware Co.....St. Paul, Minn.  
Lansing Co.....Lansing, Mich.  
Northwestern Iron & Steel Works.....  
.....Eau Claire, Wis.

### CONCRETE REINFORCING BARS.

Inland Steel Co.....St. Paul, Minn.  
Corrugated Bar Co.....St. Paul, Minn.  
N. W. Concrete Steel Co.Minneapolis, Minn.  
Minneapolis Steel & Mach. Co..Mpls., Minn.

### CORNICES.

Griffin & Boehme.....St. Paul, Minn.  
F. V. Haverland.....Minneapolis, Minn.  
Minnesota Roofing & Cornice Works.....  
.....St. Paul, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.  
St. Paul Roofing, Cornice & Ornament Co.  
.....St. Paul, Minn.

### CORRUGATED IRON, ETC.

Corrugated Bar Co.....St. Paul, Minn.

### CONCRETE REINFORCING.

Inland Steel Co.....St. Paul, Minn.  
N. W. Concrete Steel Co.Minneapolis, Minn.

### CONTRACTORS.

N. B. Cagley & Co.....Minneapolis, Minn.

### CONTRACTORS' SUPPLIES AND MACHINERY.

Decker Hardware Co.....St. Paul, Minn.  
O. F. Symons & Co.....Minneapolis, Minn.  
Victor H. Leebby.....Fargo, N. D.

### CULVERTS.

Biesanz Stone Co.....Winona, Minn.  
Klauer Mfg. Co.....Dubuque, Ia.  
Minneapolis Steel & Mach. Co..Mpls., Minn.

### CRUSHED STONE.

Fowler & Pay.....Mankato, Minn.  
Kettle River Co.....Minneapolis, Minn.  
Klauer Mfg. Co.....Dubuque, Ia.  
Mantorville Stone Co..Mantorville, Minn.  
New Ulm Stone Co.....New Ulm, Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
Widell Co.....Mankato, Minn.

### CREOSOTING.

Pepublic Creosoting Co., A. E. Larkin  
.....Minneapolis, Minn.

### DEADENING MATERIAL.

H. W. Johns-Manville Co.....  
.....Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co....St. Paul, Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
Union Fibre Co.....Winona, Minn.

### DECORATIONS.

Odin J. Oyen.....La Crosse, Wis.

### DITCHING MACHINES.

Dix Machine Co.....Stillwater, Minn.

### ELECTRICAL ENGINEERING.

Minneapolis Electric Equipment Co.....  
.....Minneapolis, Minn.  
Northern Electrical Co..Minneapolis, Minn.

## RATES

For three lines in directory, giving name, address and goods handled, \$25 for 1 year, 52 times.

### SAMPLE AD

Great Northern Brick Company  
Pressed Brick and Drain Tile  
Minneapolis, - - - Minn.

### ELECTRIC MOTORS AND SUPPLIES

H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
Minneapolis Electric Equipment Co.....  
.....Minneapolis, Minn.  
Sterling Electric Co.....Minneapolis, Minn.

### ELECTRIC SPECIALTIES

Minneapolis Electric Equipment Co.....  
.....Minneapolis, Minn.

### ELEVATORS AND ENCLOSURES.

Kimball Bros. Co.....Council Bluffs, Ia.  
Gust Lagerquist.....Minneapolis, Minn.  
Lee & Hoff Mfg. Co.....St. Paul, Minn.

### ELEVATOR CABS.

N. W. Fixture & Cabinet Co..Mpls., Minn.

### ENGINEERS—CONTRACTORS.

Power Engineering Co..Minneapolis, Minn.

### ENGINEERS.

Oscar Claussen Engineering Co.....  
.....St. Paul, Minn.  
Charles L. Pillsbury.....Minneapolis, Minn.  
L. P. Wolff.....St. Paul, Minn.  
M. B. Stone.....Minneapolis, Minn.  
W. P. Cowles.....Minneapolis, Minn.

### FIRE ESCAPES.

Crown Iron Works Co.....Minneapolis  
Des Moines Structural Steel Works.....  
.....Des Moines, Ia.  
Davenport Mach. & Fdy. Co..Davenport, Ia.  
Minneapolis Steel & Mach. Co..Mpls., Minn.

### FIREPROOF DOORS.

Thorp Fireproof Door Co..Minneapolis, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### FLUE LINING.

Northwestern Lime Co.....St. Paul, Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
St. Paul Lime & Cement Co..St. Paul, Minn.

### FIRE PROTECTION APPARATUS.

Watrous Engine Works Co..St. Paul, Minn.  
H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.

### FIREPROOFING DOORS AND SHUTTERS.

Selden Roofing & Manufacturing Co.....  
.....Minneapolis, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### FLOORING.

American Torgoment Flooring Co.....  
.....Minneapolis and (Midway) St. Paul, Minn.  
Fama Stonewood Co.....St. Paul, Minn.  
H. W. Johns-Manville Co.....  
.....Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co..Mpls. and St. Paul, Minn.  
Osgood & Blodgett Mfg. Co..St. Paul, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.  
I. Stephenson Co.....Wells, Mich.  
Thomson-Williams Co.....Duluth, Minn.

### FURRING.

Corrugated Bar Co.....St. Paul, Minn.

### GAS AND ELECTRICAL FIXTURES.

Herber Chandelier Co..Minneapolis, Minn.  
Mpls. Electric Equipment Co..Mpls., Minn.  
Minneapolis Gas Fixture Co..Mpls., Minn.  
Sterling Electric Co.....Minneapolis, Minn.

### GLASS.

American Luxur Prism Co....Chicago, Ill.  
Minnesota Art Glass Co....St. Paul, Minn.  
Pittsburgh Plate Glass Co.....  
.....Minneapolis and St. Paul, Minn.

### GRANITE.

Rockville Granite Co.....Rockville, Minn.

### GRAVITY CARRIER.

Minnesota Manufacturers' Association...  
.....North St. Paul, Minn.

### HARDWARE TRIMMINGS.

Decker Hardware Co.....St. Paul, Minn.  
Gardner Hardware Co.....Minneapolis, Minn.  
Raymer Hardware Co.....St. Paul, Minn.  
Watrous Engine Co.....St. Paul, Minn.  
Warner Hardware Co.....Minneapolis, Minn.

### HEAT REGULATORS.

Andrews Heating Co.....Minneapolis, Minn.

### HEATING AND VENTILATING.

Andrews Heating Co.....Minneapolis, Minn.  
Associate Mfrs. Supply Co.....  
.....Minneapolis, Minn.  
Hasey Heating Co.....Minneapolis, Minn.  
H. Kelly & Co.....Minneapolis, Minn.  
National Mfg. & Supply Co....Mpls., Minn.  
Charles Wilkins & Co..Minneapolis, Minn.

### HOSE.

Gardner Hardware Co.....Minneapolis, Minn.  
W. K. Morison & Co.....Minneapolis, Minn.

### HOTELS.

Radisson Hotel.....Minneapolis, Minn.



## NOTE

For street address of firms mentioned here, consult their advertisements, which can readily be found by referring to the alphabetical list on page three.

### INSULATING MATERIAL.

H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co.....St. Paul, Minn.  
Union Fibre Co.....Winona, Minn.

### INSURANCE.

Fidelity & Deposit Co.....  
.....Minneapolis and St. Paul, Minn.  
Fred L. Gray Co.....Minneapolis, Minn.  
Hood & Penney Co.....Minneapolis, Minn.  
W. B. Joyce Co.....Mpls. and St. Paul, Minn.  
Minneapolis Insurance Agency.....Mpls., Minn.

### IRON AND STEEL WORK.

Avery Steel & Iron Co...Minneapolis, Minn.  
Clinton Bridge Works.....Clinton, Ia.  
Crown Iron Works.....Minneapolis, Minn.  
Davenport Machine & Foundry Co.....  
.....Davenport, Ia.  
Des Moines Structural Steel Works.....  
.....Des Moines, Ia.  
Inland Steel Co.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co..Mpls., Minn.  
N. W. Concrete Steel Co..Minneapolis, Minn.  
Oberg & Stainer.....Minneapolis, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.  
St. Paul Foundry Co.....St. Paul, Minn.  
E. J. Voggenthaler Co.....Dubuque, Ia.  
Youngstown Iron & Steel Co.....  
.....Minneapolis, Minn.

### JOIST HANGERS.

Avery Steel & Iron Co...Minneapolis, Minn.  
Crown Iron Works Co.....Minneapolis  
Davenport Machine & Foundry Co.....  
.....Davenport, Ia.  
Minneapolis Steel & Mach. Co..Mpls., Minn.  
Northwestern Concrete Steel Co.....

### LANDSCAPE ARCHITECTS.

B. Terrell Hoyt.....Minneapolis, Minn.

### LIME.

Fowler & Pay.....Mpls. and Mankato, Minn.  
Landers-Morrison-Christenson Co.....  
.....Minneapolis, Minn.  
Gust Lillyblad.....Red Wing, Minn.  
Shakopee Cement Lime Manufacturing Co.....  
.....St. Paul, Minn.  
Speakes Lime & Cement Co..Superior, Wis.  
St. Paul Lime & Cement Co..St. Paul, Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
The Northwestern Lime Co..St. Paul, Minn.

### MANTELS—GRATES.

Drake Marble & Tile Co.....  
.....Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
N. W. Marble & Tile Co..Minneapolis, Minn.  
Twin City Tile & Marble Co..Mpls., Minn.

### MARBLE, TILING, MOSAIC.

Drake Marble & Tile Co.....  
.....Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
N. W. Marble & Tile Co..Minneapolis, Minn.  
Thomson-Williams Co.....Duluth, Minn.  
Twin City Tile & Marble Co..Mpls., Minn.

### METAL SHINGLES.

Milwaukee Corrugating Co..Milwaukee, Wis.

### METAL AND WIRE LATH.

Corrugated Bar Co.....St. Paul, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.  
Johnson, Jackson & Corning Co.....  
.....Minneapolis and St. Paul, Minn.  
Northwestern Lime Co.....St. Paul, Minn.  
St. Paul Lime & Cement Co..St. Paul, Minn.  
Thomson-Williams Co.....Duluth, Minn.

### MILLWORK.

Baxter Sash & Door Co.....Duluth, Minn.  
Osgood-Blodgett Mfg. Co.....St. Paul, Minn.

### MUNICIPAL CASTINGS.

Davenport Mach. & Fdy. Co..Davenport, Ia.

### OFFICE FURNITURE.

Farnham Printing & Sta. Co..Mpls., Minn.

### ORNAMENTAL IRON AND WIRE.

Builders Iron Works Co.....  
.....Minneapolis and St. Paul, Minn.  
Crown Iron Works Co.....Minneapolis  
Davenport Machine & Foundry Co.....  
.....Davenport, Ia.  
Demeules Bros.....Minneapolis, Minn.  
Flour City Ornamental Iron Works.....  
.....Minneapolis, Minn.  
Midway Ornamental Iron Works.....  
.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co..Mpls., Minn.  
St. Paul Foundry Co.....St. Paul, Minn.

### PAINTS, FILLERS, ETC.

Gardner Hardware Co...Minneapolis, Minn.  
Ricketson Mineral Paint Works.....  
.....Milwaukee, Wis.

# The Buyer's Guide and Classified Directory of Advertisers

### PACKINGS AND HOSE.

H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.

### PAVEMENT.

Barber Asphalt Paving Co...Des Moines, Ia.  
Barrett Mfg. Co.....New York, N. Y.

### PICTURE MACHINES.

Northern Theatre Supply Co..Mpls., Minn.

### PIPE AND BOILER COVERING.

H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.

### PIPE—CAST IRON.

American Cast Iron Pipe Co...Minneapolis

### PLASTER—WALL.

H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
Plymouth Gypsum Co.....Fort Dodge, Ia.  
Shakopee Cement Lime Co..St. Paul, Minn.  
St. Paul Lime & Cement Co..St. Paul, Minn.  
Standard Salt & Cement Co..Duluth, Minn.

### PLASTERING—ORNAMENTAL.

Brioschi-Minuti Co.....St. Paul, Minn.

### PLASTIC ORNAMENTS.

Brioschi-Minuti Co.....St. Paul, Minn.  
K. F. Lott & Co..Mpls. and St. Paul, Minn.

### PLUMBING AND GAS FITTING

Charles Wilkins & Co...Minneapolis, Minn.

### PRINTING.

Farnham Printing Co...Minneapolis, Minn.

### PRISMS.

American Luxfer Prism Co...Chicago, Ill.  
Crown Iron Works Co.....Minneapolis

### PLUMBING AND HEATING JOBBERS.

### POWER PLANTS.

Associate Mfrs. Supply Co.....Mpls., Minn.  
Central Supply Co.....Minneapolis, Minn.  
National Mfg. & Supply Co..Mpls., Minn.

### RADIATORS.

Associate Mfrs. Supply Co.....Mpls., Minn.  
Central Supply Co.....Minneapolis, Minn.

### REVOLVING DOORS.

Van Kannel Revolving Door Co.....  
.....St. Paul, Minn.

### ROOFING GRAVEL AND ASPHALT.

Griffin & Boehme.....St. Paul, Minn.  
H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
Krieger-Jamar Co.....Duluth, Minn.  
Minnesota Roofing & Cornice Works.....  
.....St. Paul, Minn.  
Northwestern Lime Co.....St. Paul, Minn.  
Scribner-Libby Co.....St. Paul, Minn.  
Selden Roofing & Manufacturing Co.....  
.....Minneapolis, Minn.  
Thomson-Williams Co.....Duluth, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### ROOFING—METAL.

Badger Steel Roofing & Corrugating Co...  
.....La Crosse, Wis.  
Duluth Corrugating & Roofing Co.....  
.....Duluth, Minn.  
Gardner Hardware Co...Minneapolis, Minn.  
La Crosse Steel Roofing & Corrugating Co.  
St. Paul Roofing, Cornice & Ornamental  
Co.....St. Paul, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### ROOFING MATERIAL.

Barrett Mfg. Co.....New York, N. Y.  
Corrugated Bar Co.....St. Paul, Minn.  
John Leslie Paper Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
McClellan Paper Co.....Minneapolis, Minn.

### ROOFING AND SIDING—IRON AND STEEL.

Gardner Hardware Co...Minneapolis, Minn.  
Inland Steel Co.....St. Paul, Minn.

### RUBBER SHINGLES.

Standard Salt & Cement Co..Duluth, Minn.

### RUST-RESISTING IRON SHEETS.

Inland Steel Co.....St. Paul, Minn.

### SAFES.

Diebold Safe & Lock Co...St. Paul, Minn.  
Hellig & Elliott Co...Minneapolis, Minn.  
Herring-Hall-Marvin Safe Co.

### SAND AND GRAVEL.

Standard Salt & Cement Co..Duluth, Minn.

### SEWER PIPE AND DRAIN TILE.

Ingalls Stone Co.....Bedford, Ind.  
Iowa Sewer Pipe & Tile Co..Des Moines, Ia.  
Northwestern Lime Co...St. Paul, Minn.  
Plymouth Clay Products Co..Fort Dodge, Ia.  
Red Wing Sewer Pipe Co..Red Wing, Minn.  
Standard Salt & Cement Co..Duluth, Minn.

## REMEMBER

Announcements on this page are read by architects, contractors, and the building trade generally, all over the Northwest and produce excellent results.

### SHEETS—IRON AND STEEL.

Gardner Hardware Co...Minneapolis, Minn.  
Inland Steel Co.....St. Paul, Minn.

### SIDEWALK LIGHTS.

American Luxfer Prism Co...Chicago, Ill.  
Crown Iron Works Co.....Minneapolis  
K. F. Lott & Co.....  
.....St. Paul and Minneapolis, Minn.

### SLATE BLACKBOARDS.

Twin City Tile & Marble Co.....  
.....Minneapolis, Minn.

### SKYLIGHTS.

Krieger-Jamar Co.....Duluth, Minn.  
St. Paul Roofing, Cornice & Ornament Co.  
.....St. Paul, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### STEEL—BARS.

Inland Steel Co.....St. Paul, Minn.  
Twin City Tile & Marble Co..Mpls., Minn.

### STONE.

Babcock & Wilcox.....Kasota, Minn.  
Biesanz Stone Co.....Winona, Minn.  
Also Building Material, Gravel for Roof-  
ing, Sand and Gravel.  
Breen Stone Co.....Kasota, Minn.  
Edw. Edinger Co.....Cedar Rapids, Ia.  
Ingalls Stone Co.....Bedford, Ind.  
Kettle River Co.....Minneapolis, Minn.  
Duluth Cut Stone Co.....Duluth, Minn.  
Mantorville Stone Co.....Mantorville, Minn.  
New Elm Stone Co.....New Elm, Minn.  
Pioneer Granite Co.....St. Cloud, Minn.  
Sauk Rapids Granite Co.....  
.....Sauk Rapids, Minn.  
Wm. Penn Stone Co.....Minneapolis, Minn.  
The Widell Co.....Mankato, Minn.

STRUCTURAL SECTIONS AND SHEETS.  
Inland Steel Co.....St. Paul, Minn.

### TANKS—STEEL.

American Bridge Co...Minneapolis, Minn.  
Central Supply Co.....Minneapolis, Minn.  
Minneapolis Steel & Mach. Co..Mpls., Minn.

### TELESCOPIC HOISTS.

Avery Supply Co.....Minneapolis, Minn.

### TERRA COTTA.

Johnson, Jackson & Corning.....  
.....Minneapolis and St. Paul, Minn.  
K. F. Lott & Co.....  
.....Minneapolis and St. Paul, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.

### VARNISHES.

Gardner Hardware Co...Minneapolis, Minn.  
North Star Varnish Co..Minneapolis, Minn.  
Twin City Varnish Co.....St. Paul, Minn.

### VALVES.

Central Supply Co.....Minneapolis, Minn.  
Crane Co.....Minneapolis, Minn.  
Crane & Ordway Co.....St. Paul, Minn.

### VAULTS.

Diebold Safe & Lock Co...St. Paul, Minn.  
Hellig & Elliott Co...Minneapolis, Minn.  
Herring-Hall-Marvin Safe Co.  
Also Vault Doors, Vault Furnishings and  
Filling Equipment.

### VENTILATING SYSTEMS.

Hackney Ventilating Co..Minneapolis, Minn.  
Charles Wilkins & Co...Minneapolis, Minn.

### WALL BEDS.

Northwestern Bedding Co...St. Paul, Minn.

### WATERPROOFING.

Gardner Hardware Co...Minneapolis, Minn.  
H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co.....St. Paul, Minn.

### WATER TOWERS, STEEL.

Minneapolis Steel & Machinery Co.....  
.....Minneapolis, Minn.

### WINDOW SCREENS—METAL FRAME.

O. F. Symons & Co...Minneapolis, Minn.

### WINDOW SHADES—WASHABLE.

National Window Shade Co.....  
.....Minneapolis, Minn.

### WIRE AND IRON WORKS.

Builders Iron Works.....  
.....Minneapolis and St. Paul, Minn.  
Demeules Bros.....Minneapolis, Minn.  
Midway Ornamental Iron Works.....  
.....St. Paul, Minn.

### WEATHER STRIPS.

Metal Weather Strip Co...St. Paul, Minn.  
O. F. Symons & Co...Minneapolis, Minn.

### WOODWORKING.

G. E. Ingersoll.....St. Paul, Minn.



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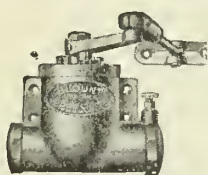
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| 5. For heavy outside Doors not<br>over 3½x7½ feet..... | 8.00   |
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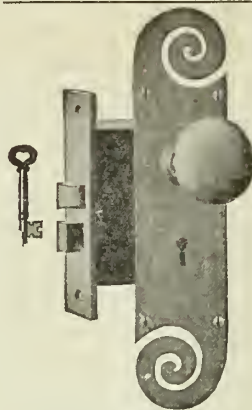
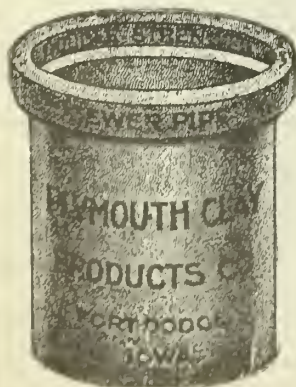
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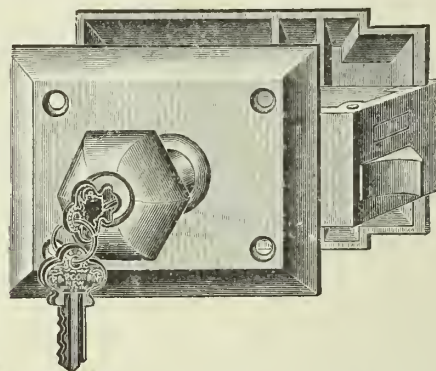
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that lies in artistic de-  
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633 Ryan Building  
ST. PAUL, MINN.



# The IMPROVEMENT BULLETIN

OFFICIAL ORGAN OF THE MINNESOTA STATE ASSOCIATION OF BUILDERS EXCHANGES

VOLUME XLVII.

SATURDAY, MARCH 21, 1914

NUMBER 16



## EDITORIAL



O. L. COLBURN, Editor

### IT CAN BE DONE.

A state convention can be held, the members of the body can come to Minneapolis and get away without being discovered by the Civic & Commerce association. The Surveyors & Engineers Society of Minnesota assembled Feb. 24, held their annual meeting for several days at the West Hotel, and faded away without disturbing the organization that is first in war, first in peace and secure in the Security Bank building while events are transpiring in the West Hotel.

About a year ago when the annual meeting of the state engineers was held at the Ryan hotel, St. Paul, the daily papers there printed a great deal about it in advance. It attracted general attention; the city was alive to it, and the largest gathering of this profession that ever took place in the west was a result. The banquet was a big and happy event. The city engineering department and St. Paul's live local society of engineers did a lot of good work to make the meeting the big success it was. St. Paul will do it again next winter when the engineers will go back there for their annual convention; and remembering the pleasant experiences of 1913 the rapidly growing ranks of the engineers of Minnesota will yield another big delegation to the capital city. The entertainment committee will again outdo itself and there will be some especial circus features—the state legislature, for instance.

Hospitality and sociability are fine traits but they require energy. It is not enough to select a considerable committee of gentlemen, in a civic organization, and label it, "Conventions and Publicity." It may be two or three years before the engineers venture to meet here in Minneapolis again. In the meantime, the Conventions and Publicity committee, may recall the old admonition about the ant and her ways. We do not aim to be too critical. Oversights will occur. But a convention committee of a civic and commercial organization is one of the most important aids. The committee should hold as few post mortems as possible.

### STARTLING BUILDING RECORDS.

Recently the Improvement Bulletin mentioned in this column the defects of the system, now in use, of reporting the building statistics of the leading cities of the country. Some absurdities were cited. In the February building report of the country, sent out by Construction News, this item is found:

Davenport, sixteen buildings, February, 1914, estimated cost, \$352,950; February, 1913, eight buildings, \$14,325; gain for 1914.—TWO THOUSAND THREE HUNDRED AND SIXTY-THREE PER CENT (2,363%). Colorado Springs shows a gain of 399 per cent with twenty-five buildings at \$110,520 in February, 1914, and fourteen buildings at \$25,140 in February, 1913. Altoona, 545 per cent gain with thirty-one buildings at \$98,905, compared with eighteen buildings last year at \$15,674; South Bend, Ind., 411 per cent gain, the number of buildings having increased from eight last year to eleven this year, in February. San Francisco shows a gain of 252 per cent, but she does not build a world's fair every year.

### PREDICTING A BANNER YEAR.

Of more than ordinary significance is a statement of business conditions made to the Chattanooga Tradesman by Captain A. J. Gahagan, of the Loomis & Hart Furniture Co., Chattanooga. He says:

"Referring to the business outlook for 1914, we regard it good, especially in the southern states. There is a much more general optimistic sentiment prevailing among the business people in the southern states, where our goods generally find a market. Orders for this season of the year are very satisfactory, and we have no complaint on account of collections. Basing an opinion upon our experience, we believe failures are below normal, and that mercantile, manufacturing and agricultural interests have not been in better condition any time during the last decade. We believe 1914 will be one of the banner years for this section of the country."

### AMERICAN ENGINEERS ABROAD.

Achievements of American engineers, which include the Panama canal and the immense government works in the west, have built up a world-wide reputation. Results are noted in several recent announcements in regard to great undertakings in foreign countries.

A Minnesota engineer, Hugh L. Cooper, who now belongs to the country at large, will supervise the construction of a hydro-electric dam across the Nile, in Egypt, was selected for the post by Sir Ralph Wilcox, supervising engineer of the famous Assuan dam, when he was recently in the United States and saw Cooper's work at Keokuk. Government inspectors who watched closely the work of the Keokuk dam pronounced it the finest structure of its kind in the world. Mr. Cooper also designed and built the power dam across the Susquehanna river at McCalls Ferry, regarded as one of the notable engineering works of the country. His specialty has been the direction of long dams of small heads and, as that is the problem presented to engineers seeking to control the waters of the Nile, it is assumed that it was his reputation that led to his selection by the Egyptian government. Cooper is a former resident of Rochester, Minn.

An American staff of engineers will supervise the immense amount of work to be done in Russia on the Volga river and tributaries, under a contract given by the government. This work will cost the vast sum of \$250,000,000. It will be expended during five years. A great deal of dredging is included to improve the river for navigation.

### BRUSHING UP THE HAT.

Canada's Hat is carried a little to one side, the province of Alberta being much nearer the Pacific than the Atlantic, but this is a pardonable fact since Canada has grown to be a jaunty, wealthy Briton of unquestionable resources. And Medicine Hat is to be brushed up this year by the expenditure of \$1,000,000 or more for improvements. The facts, in this instance, are similar to those regarding betterment in all of the cities of the western part of the Dominion. The city engineer has on his program: Sewer extensions, \$80,000; sidewalks, \$100,000; curb and gutter, \$25,000; surface sewers, \$50,000; street grading, \$60,000; fire halls, \$70,000; new natural gas wells and gas main extensions, \$80,000; electric light extensions, \$30,000; addition to power and filtration plant, \$50,000; water mains, \$100,000; new street lighting system, \$15,000; new public school buildings, \$340,000. The recent floating of the city's debentures on the London market, which was such a success, places this municipality in a position where it will be able to carry on the most necessary of the public improvements.

### LARGER CITIES SHOW GAINS.

The larger cities with the exception of New York show most satisfactory gains in February, 1914, as compared with February, 1913, says Construction News. New York had a loss of 72 per cent, a difference of between an expenditure of \$10,964,760 in February, 1913, as against \$3,053,126 in the month just closed. There was an increase in Chicago of 8 per cent, Philadelphia, 26; Detroit, 92; Pittsburgh, 161; Cleveland, 19; Newark, 14; Washington, 39; Buffalo, 14; Springfield, Mass., 10; New Haven, 190; Hoboken, 257; Trenton, 87; Reading, Pa., 17; Altoona, 545; Erie, 19; Portland, Me., 42; Saginaw, 22; Toledo, 49; Milwaukee, 11; Minneapolis, 38; St. Paul, 69; Columbus, 5; Akron, 5; Evansville, 170; Duluth, 76; Cedar Rapids, 37; Trenton, 87; Salt Lake City, 10; Colorado Springs, 399; Fort Wayne, 44; Youngstown, 15; Peoria, 32, Wilkes-Barre, 64, and Pueblo, 102.

The situation on the Pacific Coast is peculiar and worthy of some more satisfactory explanation than is at hand; notably building operations in San Francisco show an increase of 252 per cent, permits having taken out in that city in the month just closed involve \$4,674,281, as against \$1,298,450, for the same month a year ago, and while much construction is due to the Panama Pacific exposition it is wondered whether the phenomenal increases in January and February of this year are genuine. Other Pacific Coast cities such as Los Angeles show a loss of 13 per cent; Portland, 12; Seattle, 62; Oakland, 28; Berkeley, 28; Pasadena, 87; Stockton, 80. Tacoma had a gain of 20 and San Jose, 19 per cent.



## Emergency Work at the Cofferdam, Minneapolis Dam, Mississippi River

In all engineering construction work there are accidents and emergencies of major or minor importance, which (even when unimportant in themselves) afford valuable suggestions to men engaged in similar work. A case in point was a slip, on February 6, at the coffer-dam for the "high dam" now being built by the United States government at a point between St. Paul and Minneapolis. This dam (dam No. 1, Mississippi river) will be thirty feet high, with a lock giving access to a new harbor at Minneapolis, formed by the pool. The dam will back up the water just far enough not to interfere with the tail water from the St. Anthony Falls Water Power Co. Press reports were to the effect that a part of the dam itself had failed, but the "accident" was a slip of the coffer-dam, which was soon checked. For the following information, we are indebted to Lieutenant-Colonel Charles L. Potter, corps of engineers, United States of America.

In the construction, each end of the dam was inclosed in a coffer-dam and the river allowed to pass between them. In one of these were built the lock and three dam sections; in the other were built the powerhouse foundation and ten dam sections, which sections contain eight sluiceways. The next step was to coffer-dam the river for the remainder of the dam, and to divert the water through the sluiceways and power house. To reach the sluiceways, it was necessary to raise the water above the dam about two feet, and in order to entirely carry the river, it was necessary to raise it to some head on the sluiceways.

The river is controlled at Minneapolis (about five miles above the new dam) by two dams which furnish power for flour mills, for electric lighting, and for street railways. The flour mills shut down from 8 a. m., Sunday to 8 a. m., Monday, which greatly reduces the utilized flow during that time. But they have little pondage capacity and can hold back the flow of the river less than one hour. A few miles above Minneapolis (at Coon Rapids) the Minneapolis General Electric Co. finished a dam about the middle of January. They had been taking advantage of the surplus waters to fill their pond on Sundays.

On Thursday, January 29, the United States engineer of office wrote the latter company that the coffer-dam was to be closed on Sunday, February 8, and requested it to be in a position to hold (and to actually hold) on that day, all water not absolutely necessary for the street railway service. This necessitated the company using its steam plant for electric lighting. The company agreed to co-operate as desired, and so did the St. Anthony Falls Power Co., at Minneapolis. On Wednesday, February 4, it was learned that, through some mistake in orders, the Sunday filling of the pool at Coon Rapids had gone on as usual on February 1, and that the pond was absolutely full to the brim. The United States engineers then had the work on the coffer-dam at such a point that they could not risk the company's emptying its dam. There could be no water held back by anyone on the following Sunday, and therefore Sunday would be no better than any other day. It was decided not to wait but to close as rapidly as possible, as a thaw might come and greatly increase the flow and the difficulties.

The river bed is a mixture of sand, gravel, shale with some clay and loam. It was decided to close as much could be dared (to the point where the heavier material would not move much) on Friday, and to finish the closure on Saturday. On Friday, about 4 p. m. (probably the hour of peak load at Minneapolis) the scour at the gap became sufficiently heavy to indicate that work could not be stopped for the night but must be pushed ahead continuously. As luck would have it, Friday night was the worst night of this winter, with sub-zero temperature, snow and heavy wind, a veritable blizzard. As the closure proceeded, the depth increased and a change was made from thirty-two feet to thirty-six feet sheet piling.

About 11 p. m., with only two or three piles to be driven, after one pile had been driven into about four feet of solid material, the next pile, when dropped in place went entirely through the wailing pieces and floated down the river. A movement occurred in the coffer-dam and the piledrivers were withdrawn from the opening to the solid part of the dam. No further breach was made, but the point of intended closure was moved down stream about six feet.

The next morning, the coffer-dam was bulkheaded across each side of the part that moved, and the filling of the undisturbed portion has proceeded. The disturbed portion has been filled with rock, forming a dam which is now up to water level, and practically the whole river is going through the sluices and powerhouse. The movement of material of

the bottom was confined to the immediate point of the intended closure, and at ten or twelve feet upstream there was no scour. There was no ice movement involved.

A patch will be formed in the disturbed section, the present coffer (with some planking) acting as the lower side, and a row of sheet piling about fifteen feet above, forming the upper side. This patch will give no difficulty in construction as the river is now diverted and the work will be in still water. It is stated that had it not been in the vicinity of two large cities, and had it not been necessary to give some publicity in the attempt to get the co-operation of the power dams above, "the matter would not have been mentioned in the press, and it would have been regarded as one of the circumstances which necessarily arise in the prosecutions of an engineering work of this size."

One peculiar thing happened. The point of intended closure moved downstream about six feet and some of the sheet piling (triple-lap made of 3x12-inch plank) was tilted. A section of the coffer east of the opening, consisting of two rows of round piling with wallings and two rows of sheet piling (driven in four to eight feet of river bed) moved bodily down river but remained vertical. It must have carried with it, by sliding, all of the river bed material between the two rows of sheet piling. The theory is that it moved till it encountered a brush mat, heavily loaded with stone, which had been put in to prevent scour below the coffer. Whether or not there was this four to eight-foot depth of material between the sheet piling when it moved, is not known certainly, as the engineers waited for no examinations the next day, till they had a good filling of stone in that part. Not less than fifty feet moved bodily without getting out of plumb or opening the sheet piling.—Engineering News.

### ENGINEERS EXAMINE THE HIGH DAM.

Some engineers from Minneapolis informally visited the high dam on the Mississippi at the soldiers' home and made a pretty close inspection of the dam, lock and powerhouse foundations this week. An afternoon was devoted to the trip. It was found that a considerable portion of the dam proper between the power house, St. Paul side, and the lock, Minnehaha side, remains to be built. This is coffer-damed, making a large enclosed area from which the dam foundations will be installed and the big concrete reproductions of the typical sections will be built. It was apparent that there is yet a good deal of work to be done.

A general impression was given by the inspection, following the inspection of a dam and power plant built by private enterprise, that there had not been definiteness and decision at the start of the high dam work as to what was wanted, or that the plans had been changed from the original layout with the result of details which would not appear in the work if one original idea had ruled. An impression of piecemeal construction was carried away by the engineers. The examination took in the wheel pits and the gates for the lock.

On the leading question of whether the foundations now in for the power plant indicate a plant of sufficient capacity to justify the large claims of the advocates of municipal ownership by St. Paul and Minneapolis with the state university as a partner, that a great amount of money can be made by saving expense and selling current, the engineers were non-committal. It was pointed out that the plant was hardly of the type which a private owner would build, and that if it proved to be too small, it would cost ten times as much more to reconstruct and increase as it would have cost to have built the plant large enough at the start.

It is recalled that this dam was begun as a navigation aid and that this has been somewhat overshadowed by the afterthoughts of the power plant and public ownership opportunities.

### FAVORS BRICK HIGHWAYS.

Engineering News states that Robert Earl recommends the brick road for country highways and believes that a good dirt road will stand up as well as macadam. Mr. Earl was a member of the New York state highway commission under Governor Hughes. He testified before an investigation commission, according to press reports, that a brick road would cost \$25,000 a mile. The dirt road, \$2,000 to \$3,500. The county board of Winona county, Minnesota, which has members interested in the brick road, is making an interesting effort to reveal its merits and cost and compare them with concrete.



# New Electric Day Dawns in the West

Some months ago the Improvement Bulletin endeavored, by means of an article on the electrification of railroads in the west, to give a glimpse of the new conditions which would follow the development of power for the railways. It will give town and country opportunities for electric service such as few people have imagined.

"Suppose that a new country is to be opened," said Frederick Darlington in his paper on Railway Electrification, read before the American Institute of Electrical Engineers, and then his imagination projected closely what is happening and will happen, beginning in Montana. The development could be accomplished first of all by building railroads with electric motive power and at once the means of transportation that is always adopted where the population is sufficiently dense would be provided. Following such lines of convenient transportation and power, population centers and settlements would be placed on the railroads with transmission lines along the roads, and these various centers would be tied together, forming the most efficient power system. If a country is to have a density of population and prosperity that would pay for transportation by electric roads, then the railroads should unquestionably be provided with transmission lines connecting the cities. These same transmission lines carrying electric power along the railroads would afford the most economical means for distributing power for every purpose, and all the street cars, house lighting circuits, shops and factories along the railroad would naturally derive their power from them. Towns and manufacturing centers are always attracted by convenient power, as well as by good transportation conveniences. Then, again, a diversified and extended use of electric power within any area increases the size of the power plants employed therein and accordingly reduces the cost of each unit of power generated. Available central station power is a valuable asset to every prosperous settlement, just as much as railroads. "When the railroads are paralleled by transmission lines over which central stations supply electric power for their operations, then the country traversed by the railroads will be in electric power zones where power for any purpose may be taken from the lines along each railroad right-of-way, and these lines will connect large central stations together, so that transmission lines will cover the country as railroads now do, and will connect important centers for power as railroads do for transportation. Into this network of transmission circuits central electric plants will send energy that can be taken in just the right amount to supply the needs of each point included in the network. When this is achieved the distribution of power, which is the greatest problem in the way of almost universal use of central station electric power, will be overcome

with resulting economy in generation as well as in distribution, since the most economical conditions for both generation and distribution are obtained where large amounts of power are supplied at the best load factor attainable."

A concrete instance of the new era, to follow the electrification of the Chicago, Milwaukee & St. Paul road in Montana, is furnished in a statement from Billings. Negotiations are in progress there between the newly organized Montana Power Co., which will supply the current for the railroad, and farmers in several localities around Billings for running lines to furnish electricity to groups of residences of the rural districts. The plan is for the farmers to associate themselves together to form small companies to distribute the current to their farms from one central plant, to which the line of the power company will reach. This will give the farmers electricity for power and domestic purposes at a small cost.

## COMMISSION ON INDUSTRIAL RELATIONS.

Collective bargaining, conciliation and arbitration as means of adjusting differences between employer and employee will be considered at the first formal public hearing in Washington of the United States Commission on Industrial Relations. The hearing will begin Monday, April 6.

Corporation officials and trades union leaders who have negotiated and maintained trade agreements in five of the nation's largest industries will be called to testify.

The commission hopes to elicit information that will disclose to what extent improvement in industrial relations might be expected from the general adoption of such agreements in other industries.

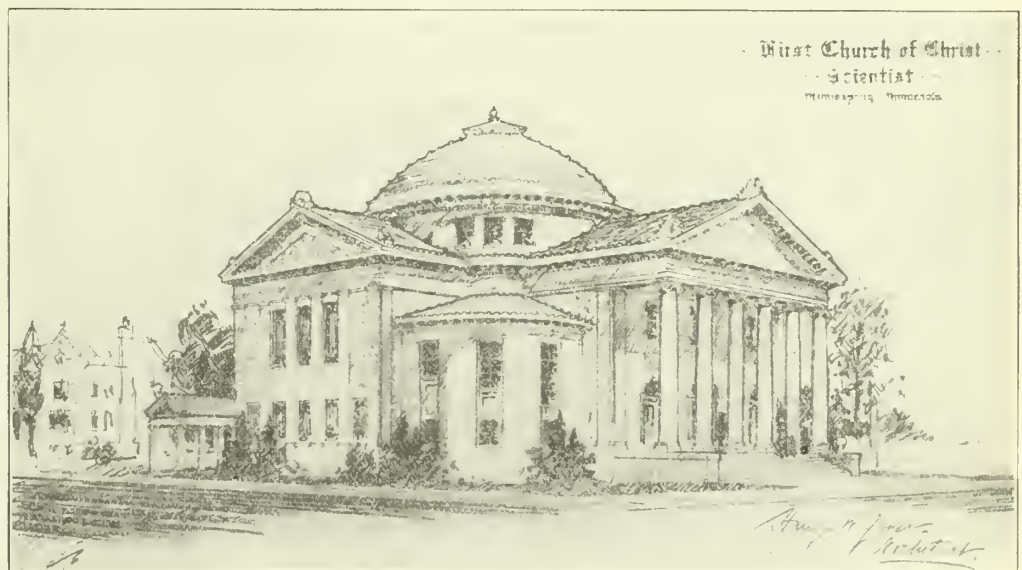
The hearing will include systematic efforts at peaceable settlement of disputes in the coal mining industry, the railroads, the clothing industry, the printing trades, the building trades and the molders' trade.

At least two representative employers and two representative union officials in each industry have been asked to testify. The list of witnesses will be made public in a few days.

One session of the hearing will be devoted to each of the five trades, and the hearing will close with the testimony of witnesses whose experience or study have been along broad, general lines.

Among the trade agreements about which detailed information will be solicited are the agreements in the anthracite and bituminous coal mining industries, the agreement that existed for several years in the building trades of New York City, various agreements in the clothing industry of New York City and Chicago, and similar agreements in the printing trades and the molders' trade.

Harry W. Jones, a Minneapolis architect, who has planned churches in many parts of the country, and an unusual number in Minneapolis, is completing plans for one of the handsomest structures, of any sort in his home city, the First Church of Christ, Scientist. It will be built at 24th st. and Nicollet av. The foundation is in and work on the 1st story is expected to begin soon. The design, as the illustration accompanying this description shows, is classical. It has that unexcelled combination, dignity and beauty, appealing to, and appealing for, character of that sort in the community. Constructed of Bedford stone, with its classic portico and its dome, 81 feet high by 70 feet in diameter it will be one of the city's notable buildings pointed out to visitors. The walls will be of solid masonry; the dome and roof frame of steel. The roof will be tile. The general dimensions of the church are 100x102. There will be seats for about 1,000; rooms for Sunday school, librarian, committees, soloists' room, reading room. The stained and



FIRST CHURCH OF CHRIST SCIENTIST, MINNEAPOLIS.

leaded glass windows will add beauty to the interior and exterior. A modern heating plant will be installed with mechanical ventilation. The total cost will be about \$100,000



# PERSONAL AND GENERAL NEWS.

## Doings of the Northwest this Week Boiled Down for Busy Readers

### PERSONAL AND GENERAL.

The Minnesota Electrical Association held its annual meeting the latter part of the week, at the Radisson, with two hundred and fifty members present. F. A. Otto, St. Paul; George Fiske of the General Electric; S. E. Doane, General Electric, lamp works; M. J. Wolf, of the Hot Point Electric Heating Co., and others spoke. R. M. Laird recommended a publicity campaign.

John Collender, for twenty years a resident and contractor at Grand Forks, N. D., died at Painesville, Ohio; aged sixty-three.

H. W. Guyer, of Miles City, Mont., and I. E. Jenkins, of Basin, Wyoming, representing the Great Western Marble & Granite Works, are at the head of the West Quincy Granite Co., recently incorporated for \$60,000.00, which will operate a new granite quarry at Longtree, to be known hereafter as West Quincy, a new station on the Milwaukee railway's Great Falls-Lewiston line in Choteau county. They have purchased one hundred and twenty acres of land there, which contains a ledge of granite of superior quality and greater in size than any in the northwestern states. The granite will be prepared for market in monuments and building stone.

Contractor D. J. Grube, Salem, S. D., has installed a gasoline engine to run his carpenter machinery.

John P. Heck, pioneer contractor at Geyser, Mont., was reported seriously ill at Soap Lake, Wash., March 5.

The Minot Builders' and Traders' Exchange, reorganized, will campaign for new members. The officers of the newly reorganized exchange are J. A. Roell, president; R. J. Piper, first vice president; Geo. Oliver, second vice president; Fred Ernest, treasurer and Henry M. Gay, acting secretary. Following the meeting Mr. Gay presented his resignation and S. D. Hollenga, secretary of the new association of commerce, was elected secretary.

W. J. Palmer, a Butte contractor, purchased the old Thorpe home ranch from Martin Sorenson, for the sum of \$39,950. There were 759 acres at fifty dollars per acre. This is one of the oldest and best ranches in Beaverhead county. Mr. Palmer will move with his family to Dillon and take immediate possession of the place.

The Gordon-Van Tine Co., of Davenport, Iowa, are making preparations for the opening of a store at their plant to accommodate the Davenport trade. In this store will be carried a complete sample line of all the building materials handled by the company. These will be sold to the local trade at the regular catalog prices.

Northwestern Portland Cement Co., Mason City, Iowa, have adopted plans of expansion and both the Mason City plant and the one at Dallas, Texas, will be enlarged and the capacity increased. Officers are: C. H. McNider, president; Frank G. Ray, secretary; F. E. Keeler, treasurer; R. E. Boyle, assistant secretary, with directors as follows: C. H. McNider and F. E. Keeler, Mason City; M. T. Gunderson, Kenyon; A. F. Frudden, Dubuque; W. F. Johnson, Toledo; Frank G. Ray, Vinton; C. H. Wagner, Minneapolis; C. I. Jones, Lincoln; M. J. Scanlon, Minneapolis. Executive committee: C. H. McNider, F. E. Keeler, A. F. Frudden. The company plans to manufacture 2,000,000 barrels in 1914. Last year they manufactured 1,600,000 barrels. This means 15,500 cars of outgoing freight, taking about 5,000 cars of incoming freight to produce it. It is stated that the Lehigh Co. will duplicate this record.

J. L. George, county auditor of Beltrami county, at Bemidji, is in the midst of the Northern Minnesota development activity. He enumerates five or six steel bridges, five state rural highways now building and eight new drainage ditches costing \$500,000, which will be established and contracts let before next winter. Incidentally he mentions a \$40,000 home this year for Elks—not a zoo but a lodge residence for the B. P. O. E.; and a \$100,000 sawmill.

Twenty companies, with a total capitalization of \$1,035,000, were incorporated in Saskatchewan during February, under the provision of the act concerning local companies. The Regina companies are: The Scottish Saskatchewan Trust Corporation, capitalization, \$200,000; Western Canada Steel Co., capitalized at \$25,000; Kinks Hotel Co., capitalized at \$75,000; the McLean Trust Co., capitalized at \$50,000. Included in the foreign companies registered is the Gutta Percha Rubber Co., Ltd., capitalized at \$6,000,000. The registration of this company was necessary, in view of their agreement with the Regina city council to establish a large distributing warehouse at Regina.

Jokes find a new use in business in "The Mixer," booklet issued by the Koehring Machine Co., Milwaukee. In-

tended primarily to explain points in the construction of these machines, and illustrate their uses in interesting jobs under way, the little magazine digresses occasionally in the sphere of philosophy for the edification of the contractor and his foreman. Moreover, it prints a series of current jokes which they can use from time to time to cheer up the men in the gangs as they fag in the attempt to develop the ultimate capacity of their Koehring concrete mixer.

Harold Johnson of Minneapolis leaves Saturday for a week's lecture tour through some of the middle states' cities, exploiting the hollow tile fireproofing methods of the National Fireproofing Co. He will visit Grand Rapids and Detroit, Michigan, Columbus, Cleveland and Cincinnati, Ohio, and Pittsburgh, Pa. If Mr. Johnson receives one-half the appreciation that he did in the Twin Cities when this same lecture was given before the Architectural Club, etc., his trip will surely be a successful one.

### ARCHITECTS AND ENGINEERS.

The United States Civil Service Commission announces an open competitive examination for assistant drainage engineer, for men only, on April 8, 1914, at the places mentioned in the list printed hereon. From the register of eligibles resulting from this examination certification will be made to fill vacancies in this position for both irrigated lands and humid regions, in the office of experiment stations, department of agriculture, at salaries ranging from \$1,000 to \$1,500 per annum, and vacancies as they occur in positions requiring similar qualifications, unless it is found to be in the interest of the service to fill any vacancy by reinstatement, transfer, or promotion.

The United States Civil Service Commission announces an open competitive examination for assistant engineer in forest products, for men only, on April 8 and 9, 1914, at the places mentioned in the list printed hereon. From the register of eligibles resulting from this examination certification will be made to fill vacancies in this position in the forest service for duty at Madison, Wis., and elsewhere as they may occur, at salaries ranging from \$900 to \$1,200 a year, unless it is found to be in the interest of the service to fill any vacancy by reinstatement, transfer or promotion.

The United States Civil Service Commission announces an open competitive examination for surveyor-draftsman, for men only, on April 8 and 9, 1914, at the places mentioned in the list printed hereon. From the register of eligibles resulting from this examination certification will be made to fill approximately six vacancies in the position of surveyor-draftsman and nine vacancies in the position of surveyor, in the forest service, department of agriculture, for service in the field, at salaries ranging from \$1,200 to \$1,500 per annum, and vacancies as they may occur in positions requiring similar qualifications, unless it is found to be in the interest of the service to fill any vacancy by reinstatement, transfer, or promotion.

J. C. Lutz, architect, recently in St. Paul, is mentioned in a report from Thief River Falls, as having decided to locate there.

Highland & Greene, Chicago, are the architects of the \$215,000 hotel to be built at Muscatine, Iowa, by the Muscatine Hotel Co.

C. L. Redman, engineer, is on the Sun river reclamation staff.

Chas. D. Reynolds, republican nominee for city engineer, Council Bluffs, Iowa, has been in railroad engineering and has specialized in sewer work, having planned the systems of a number of western cities.

Billings, Mont., engineers are preparing to hold a banquet and invite engineers from surrounding towns.

Albert Laurent, architect and builder, who spent the winter in Minneapolis, has returned to Wishek, N. D.

Trunk & Gordon, architects, St. Joe, Mo., who planned the new school at Mt. Ayer, and the new Christian church, will furnish plans for several new dwellings in Mt. Ayer, including those of H. H. Wilson and J. O. Fry.

At the regular monthly meeting of the Minnesota section of the A. I. E. E., at the Ryan hotel, St. Paul, Monday, Herbert S. Whiton of the Minneapolis General Electric Co., presented a paper on "System Operation." With the aid of a number of slides, Mr. Whiton showed many of the problems arising in the operation of a system such as the one feeding the Twin Cities. R. L. Lunt spoke on "Use of Electricity on Automobiles."



**PLANS AT BUILDERS' EXCHANGE, MINNEAPOLIS.**

Plans on file Mar. 16. Knights of Columbus building, Wells, Minn., bids open Mar. 16; school, Newton, Iowa, bids open Mar. 16; municipal building, Ellendale, N. D., bids open Mar. 17; theater, Sioux City, Iowa, bids open Mar. 17; court house and postoffice, Minot, N. D., bids open Mar. 17; bank and office building, Ironton, Minn., bids open Mar. 17; church, Aberdeen, S. D., bids open Mar. 20; church, Delano, Minn., bids open Mar. 21; concrete and brick building, Glendive, Mont., bids open Mar. 25; remodeling bank, Neillsville, Wis.; store, St. Cloud, Minn., bids open Mar. 24; heating and plumbing, school, Minot; hotel, Bemidji, Minn., bids open Mar. 27; cupboards, etc., Minot normal school; store building, St. Cloud, Minn., bids open April 1; creamery, Loretto, Minn., bids open April 13.

Bids in: Postoffice, Williston, N. D.; high school, Des Moines, Iowa; mechanical equipment, Des Moines, Iowa; First State Bank, Hoven, S. D.

Contracts awarded: School, Glenfield, N. D., Clausen & Hanson, Glenfield; public school, Toledo, Iowa, C. W. Ennis, Toledo, Iowa; school, Fergus Falls, Minn., J. Lauritzen, Fergus Falls; school, River Falls, Wis., Emil Sedlacek, Superior, Wis.; mechanical equipment, Union hospital, New Ulm; heating, Geo. N. McGary, St. Paul; electrical, A. Hubbard Electric Co., St. Paul; plumbing, Richter Plumbing Co., St. Paul; school, Minot, N. D., Carl Bartleson, Minot; store and office building, Wahpeton, N. D., Bower Bros., Fargo; mechanical equipment, Crookston Bank, heating and plumbing, Crookston Heating & Plumbing Co.; electrical, Electric Shop, Crookston; rest room, Roundup, Mont.; J. H. Grant, Roundup.

**UNUSUAL INTEREST IN MONTHLY MEETING.**

There was a large attendance at the March monthly luncheon and meeting of the Builders' Exchange, and President Maurice Schumacher had a pleasant surprise in store—an address by President Decker of the Northwestern National Bank on Minneapolis as the Head of Navigation on the Mississippi. Mr. Decker virtually gave an informal report of the Civic & Commerce association committee's work on the proposition. He showed that within a year navigation to docks at the Washington av. bridge would begin, with self-propelled barges as the carriers. It was an enlightening talk which left a clear impression of the main details of the local navigation situation. Incidentally it showed how thoroughly Mr. Decker had gone into the matter.

**MINNEAPOLIS ENGINEER GETS LARGE CONTRACT IN CANADA.**

Contracts for four viaducts at Vancouver, B. C., have just been let and they call for the Turner mushroom system of reinforced concrete construction. They will be built by the Union Contracting Co., Ltd., at the contract price of \$299,830. The Turner system was selected in this instance without competition as the best. A report of the letting by the Vancouver Sun states that the chairman of the bridge committee of the city council pointed out that the mushroom system was the best obtainable for bridge construction. This conviction is regarded a result of the general competition which was held for the planning of the large Georgia Harris

viaduct, resulting in the choice of the Turner system proposal and plans. Three of the viaducts for which the contracts have just been let will be sixty-six feet wide, with forty-two-foot roadway, and stone railing, with three rows of columns. The Hastings viaduct will be larger, with a width of ninety-nine feet and four rows of columns.

**CALLS NEW ROOFING METHODS BEST.**

Geo. M. Brown, president of a roofing manufacturing company, is quoted as saying.

"Prepared roofing—the modern roofing—has come to stay. It is the natural result of the needs of modern business and modern building methods.

"It represents one of the big factors in the 'scientific management' of building.

"Like every innovation—the first telephone, the first typewriter, the first automobile, the first airship—it bumped smash up against the gigantic wall of prejudice at the very start.

"It was a real struggle—the same real struggle that every new industry undergoes before it gets under way.

"Every manufacturer of modern roofing—every dealer who sells roofing and every user of roofing, has profited by this gigantic success.

Thousands upon tens of thousands of dollars have been saved by users of roofing by the success of this modern roofing industry—not only the users of this one company's product, but the users of all good roll or shingle roofings. For, any good, modern roofing has many advantages over the old style roof.

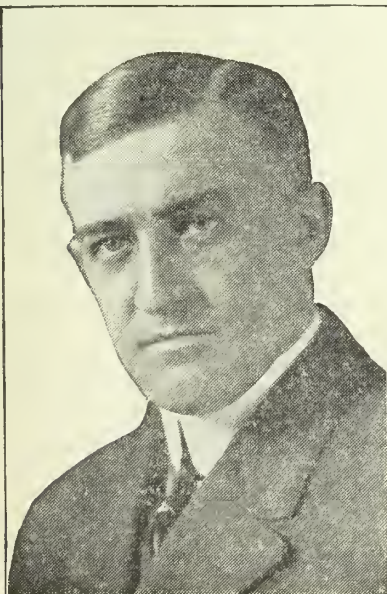
"And while saving thousands upon thousands of dollars for roofing owners, this success has made thousands upon thousands of dollars in profits for roofing dealers. This one big success has meant the gigantic success of the entire roll roofing industry.

Modern roofing has come to stay. For it is based on modern, scientific methods, efficiency, economy and better service. It means the truest economy for the roofing used—the best protection for his buildings and a better protection for his investment than he has ever had before.

"At the same time it means a good, fair profit to the roofing dealer and bigger and better business than he ever did before."

**NEW PATENTS.**

The following patents were issued last week to Minnesota and Dakota inventors, as reported by Williamson & Merchant, patent attorneys, 925-933 Metropolitan Life building, Minneapolis, Minn.: H. O. Amundson, Alexandria, Minn., drawer for filing cases; M. L. Chilson, Webster, S. D., pressure gage; C. S. Connor, Boyd, Minn., neck yoke securer; T. H. Goulding, St. Paul, Minn., pet-cock valve; O. N. Iverson, Hills, Minn., trolley head; P. W. Leon, Minneapolis, Minn., pile driver; J. G. MacCune, Minneapolis, Minn., embroidery hoop; V. Nichet, Knife River, Minn., hat pin guard; C. T. Schrover, Chester, S. D., steering wheel; J. Suggitt, Minneapolis, Minn., side-ballast unloading plow; J. Swinland, Duluth, Minn., folding umbrella; J. W. Trautner, Red Wing, Minn., clothes line reel; F. C. Underwood, Deadwood, S. D., vaporisor and carburettor.

**J. A. O. PREUS, CANDIDATE FOR STATE AUDITOR.**

State Insurance Commissioner J. A. O. Preus was graduated from Luther College, Decorah, Iowa, in 1903, and from the University of Minnesota Law School in 1906. In the fall of that year he was appointed messenger in the United States senate by Senator Knute Nelson and shortly after was made assistant clerk of the committee on public lands, of which Senator Nelson was chairman. In 1909 Governor Eberhart appointed him his executive clerk and in 1900, state insurance commissioner.

With the assistance of Senators Benson and Wallace in the senate and Representative Thomas Kneeland in the house he succeeded in securing passage of the so-called "Blue Sky" law which places all insurance promotion schemes under the supervision of the insurance commissioner. This law, which was drafted by Mr. Preus, was the only so-called "Blue Sky" law which passed the last legislature.

Assisted by Hon. Ernest Lundeen in the house, and Hon. Fremont Thoe in the senate, Mr. Preus was successful in passing the state fire insurance law whereby Minnesota now carries its own insurance upon its property which will result in the saving of thousands of dollars to the state annually.

With the efficient co-operation of Senator John Moonan and Hon. Thomas Frankson, who were the respective chairmen of the insurance committees of the senate and the house, and other members of the legislature, he secured favorable action upon twelve

other measures that he proposed, among them a law allowing township mutual fire companies to insure farmer's automobiles; another providing for standard provisions in health and accident policies to protect the public in general, and especially the laboring classes; again a measure reducing the limitation for carrying co-insurance, from \$20,000 to \$5,000, thus allowing the small country merchant to get the benefit of a reduced rate under co-insurance.

**Recent Legal Decisions****NORTH DAKOTA—NEGLIGENCE.**

Ole Haugo, plaintiff and respondent, vs. Great Northern Railway Co., defendant and appellant.

(1) In order to constitute contributory negligence a mater of law, the facts and circumstances must be such that no other inference can fairly and reasonably be drawn therefrom. Evidence examined and held, that plaintiff was guilty of such negligence in the case at bar that he cannot recover.

(Syllabus by supreme court.)

Appeal from the district court of Bottineau county, Burr, J.

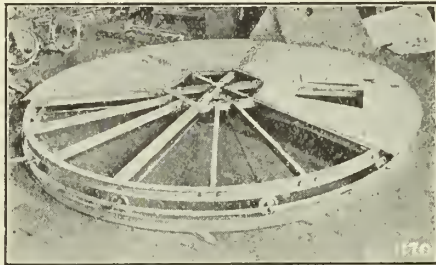
Reversed. Opinion of the court by Burke, J.

Murphy & Duggan of Grand Forks, N. D., attorneys for defendant and appellant.

Weeks & Moun, of Bottineau, N. D., attorneys for plaintiff and respondent.



## Do You Know About The Auto Turntable Made in Minneapolis

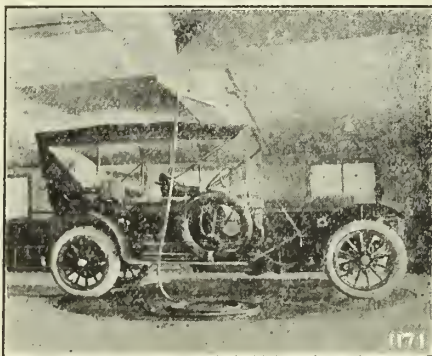


In planning a new garage, a good auto turntable is almost a necessity. The average owner, however, is using the old stable for a garage and has to back the machine in or out.

A good turntable removes the difficulties of handling and furnishes an ideal wash rack.

A slight push will operate our turntable even when loaded with a heavy automobile. They are made 14 and 15 feet in diameter, with steel tops consisting of plates, stamped so they are non-slipping.

When the table is used as a wash rack, the water drains into the concrete pit beneath, through the numerous holes punched in the steel plates. Sewer connection is made with the pit.



138 Inch Wheel Base Car on 15 Ft. Turntable

The turntable is mounted on a center bearing and rolling wheels like a drawbridge. Owners of two or more cars having a turntable can easily handle them in a small space.

Among Minneapolis turntable owners are the following:

Geo. H. Partridge,  
Mrs. M. B. Koon,  
E. E. Fisher,  
Geo. B. Lane,  
Geo. H. Rogers,  
C. H. Robinson,  
Franklin M. Crosby,  
Mrs. Wm. H. Dunwoody,  
F. W. Clifford,  
A. C. Loring,  
J. E. Clifford,

H. R. Lyon,  
Cavour S. Langdon,  
Geo. C. Stiles,  
J. H. Queal,  
C. G. Goodrich,  
E. J. Carpenter,  
H. P. Gallaher,  
Geo. B. Clifford,  
Alvin Robertson,  
Alfred Pillsbury,  
J. P. Snyder.

We sell the turntables to general contractors who install them for the owners.

If you are an auto owner, write these Minneapolis contractors who will quote prices on turntables installed.

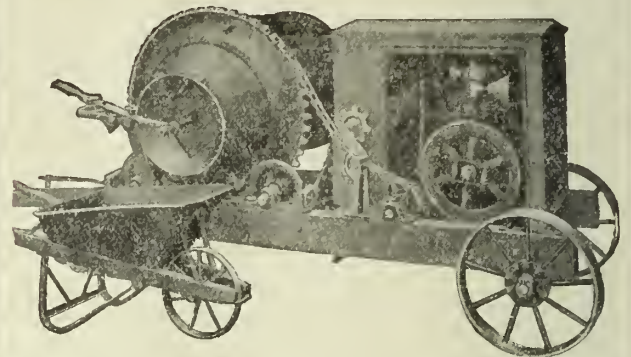
H. N. Leighton Company,  
Henry Parsons,  
N. Jensen,  
Pike & Cook Company,  
R. B. Pelton,  
J. L. Robinson,

If you are a contractor, write to

### The American Bridge Co.

MINNEAPOLIS, MINNESOTA  
DULUTH OFFICE: WOLVIN BUILDING

## An Offer for the Shrewd Buyer



Beginning March 1st, we will sell ten mixers at actual cost of manufacture. We must use our warehouse for other purposes and the ten machines it contains will be sold at this big sacrifice.

There are two sizes—one holding  $8\frac{1}{2}$  cubic feet per batch, the other 11 cubic feet. Both machines have reliable gasoline engine power and can be furnished either with or without elevating side loaders and water tanks.

This is a bona fide offer in every respect. Machines are absolutely new and intended for the coming season's sales.

You can take advantage of this offer and still not tie up your money until you get ready to use the machine. We will hold the mixer ninety days for you on your signed order.

Come in and look these machines over now before they are all gone, or write or telephone and our salesman will call on you.

Remember the date, March 1st. Ask about this proposition now.

### LANSING COMPANY

330 North First Street, :: :: Minneapolis, Minn.

## CAST IRON Water, Sewer, Gas, Culvert PIPE

American Cast Iron Pipe Co. Minneapolis, Minn.

N. W. Main 406

840-41 Plymouth Bldg.

### A SOUND GLASS ROOF.

The glass roof or skylights that consist of extra heavy glass laid in galvanized iron or steel frames, subject to extreme heat and again to long-continued rainy weather, are not laid in ordinary glazier's putty, says "The Painters' Magazine," but in paste oil paint. The very best material for this purpose is paint skins, in paste form, that have been run through a paint mill or a putty chaser, or, still better, that have been boiled over a fire in a kettle and softened somewhat by adding linseed oil. This remains elastic and does not crack; on the contrary, has the characteristics of rubber when made from linseed oil paint skins.

Simply lap the glass without frames as in the case in skylights. It is necessary to thin the paste somewhat and apply a strip of the semi-paste to the end of each underglass. Finally, when laid and the paint has set, the ridge made by the top layers must be touched up with the same material in a manner similar to that used when clapboard sides are painted, excepting that the paint must be much stouter.

### NEW ROOFING NAIL.

A lead-headed nail for fastening corrugated roofing or siding has been patented by Alexander Fishie of 5606 South State st., Chicago. The nail is said to be absolutely non-rustable and will stand all climatic changes and weather conditions. It can be used for nailing to wood sheathing or purlins, or fastening to structural steel work. It is claimed that a big saving results in the use of this nail on account of the large surface covered by the head, as it will not require as many nails per square of iron. The lead head on this nail thoroughly protects the hole made in the iron and prevents any moisture coming in contact with the hole and getting through the roofing or sheathing.



# CONSTRUCTION & CONTRACT NEWS

OF SPECIAL VALUE TO ENGINEERS, CONTRACTORS, BUILDERS AND MANUFACTURERS

## MINNEAPOLIS, MINN.

Office: 912 Lumber Exchange. Phones: N. W. 3902; T.-S. 2194. Please telephone news not later than Wednesday.

Items marked with asterisk not in daily sheets.

### Building Permits.

W. H. Eustis, 200-12 4th av. S., electric traction passenger elevator; Otis Elevator Co., builders.....	6,500
Peters Home Building Co., 4128 Elliott av., 1½-story frame dwl.....	2,300
E. H. Conary, 1401-07 W. Lake st., alterations, repairs and plaster-veneer stores.....	1,000
Albert Hanson, 2852 21st av. S., 1½-story frame dwl; Munn Williams, builder.....	1,700
Frank P. Hough, 4355 Garfield av., 1½-story plaster veneer dwl.....	4,000
W. H. Barber, 3624 3d av. S., interior alterations; also porch.....	1,000
Isaac O. Dalien, 656 18th av. NE., 1½-story frame dwl.....	1,000
Ben Ness, 3827 N. Bryant av., 1½-story frame dwl.....	1,000
Wm. M. Smith, 2441 5th av. S., 1½-story plaster veneer dwl; F. Peoples, builder.....	3,000
John W. Thompson, 3224 38th av. S., 1½-story frame dwl; C. A. Carlson, builder.....	1,800
John Myhr, 4242 Railroad av., 1-story plaster veneer dwl.....	1,350
John Hyhr, 4242 Railroad av., 1-story plaster veneer dwl.....	1,200
Mary E. Thomas, 3020-22 10th av. S., 2-story plaster veneer duplex.....	5,500
Hans A. Sandven, 3525 17th av. S., 1½-story frame dwl.....	1,800
A. W. Greening, 4008 Pleasant av., 1½-story plaster veneer dwl; O. B. Currier, builder.....	3,500
Minneapolis Baptists Union, 4145 41st av. S., frame mission chapel.....	1,000
Matt H. Kaehn, 1329-31 N. 4th st., 2-story plaster veneer bakery; contract not let.....	2,700
Sulflow & Maas Co., 1-93 N. 17th st., 3-story brick apartments (25); J. & W. A. Elliott Co., builders.....	30,000
Andy Lang, 5321 S. Abbott av., 1½-story frame dwl; Geo. T. Chase, builder.....	2,000
E. G. Walton Agency, 3234 40th av. S., 1-story frame dwl.....	1,350
G. C. Breyette, 4001 30th av. S., 1½-story frame dwl.....	2,000
G. C. Breyette, 4005 30th av. S., 1½-story frame dwl.....	2,000
Chas. Stenberg, 3235 Blaisdell av., 2-story frame duplex.....	6,000
Carl Peterson, 2900 E. 24th st., 2-story plaster veneer duplex.....	3,000
Antoni Piersiok, 428 Main st. NE., 2-story brick store and flats.....	4,000
Oscar D. Anderson, 4052 Elliott av. S., 1½-story plaster veneer dwl; also frame chicken house.....	2,240
Minnesota Loan & Trust Co., agents, 317 1st av. N., steel and tile elevator hatchway, tile boiler enclosure; Pike & Cook Co., builders.....	1,700
Ludvig Krohn, 3641 38th av. S., 1½-story frame dwl.....	1,000
Axel Jorgensen and H. M. Hansen, 4347 42d av. S., 1-story frame dwl.....	1,500
Martin Splitt, 1331 N. Queen av., 1½-story frame dwl; Matt Theis, builder.....	1,470
Complanter Lubricating & Oil Co., 2848 3d av. S., concrete and brick foundation under warehouse, alterations; Geo. T. Burnham, builder.....	4,800
John P. Lindstrom, 4028 11th av. S., 1-story plaster veneer dwl.....	2,600
Mrs. Nellie Malone, 616 6th av. SE., 2-story plaster veneer dwl.....	1,900
John Reiss, 3833 Minnehaha av., concrete foundation, frame addition and change dwl. to duplex.....	2,500
J. E. Pilgram, 1212-18 Fremont av. N., 2-story brick flats (4).....	7,500
Robert Johnson, 4308 11th av. S., 1-story frame dwl.....	1,500
Robert Johnson, 4317 11th av. S., 1-story frame dwl.....	1,500
Oliver H. Swerig, 2651 N. Dupont av., 2-story frame dwl.....	3,000
Chas. S. Albright, 918 21st av. SE., 1½-story frame dwl.....	2,750

Fred C. Bodeman, 3114 N. Newton av., 1½-story frame dwl.....	3,000
August H. Hiller, 3118 N. Newton av., 1½-story frame dwl.....	3,000
F. E. Brown, 5124 S. Lyndale av., 2-story plaster veneer dwl.....	4,300
Minnesota Mazda Lamp Works, 801-29 Broadway st. NE., freight elevator doors.....	1,500

Haugin & Newstrom, architects, 212 Iron Exchange, building, have plans for a 2-story store and office building, 11th av. S. and Franklin, for Oster Realty Co., 1103 Franklin av. Plans will be completed about April 6th. Face and common brick, stone trim, metal skylight, structural iron; 77x124; also plans for store and apartment building; 2-story, 29x60, \$5,000; 1701 N. E. 4th st., for A. Wines, 1701 N. E. 4th st. Plans in progress; day work. Face and common brick, tar and gravel roof, structural iron.

Contract for the interior of the Scandinavian-American National Bank of Sioux Falls, S. D., has been let to Henry E. Moran, Minneapolis, northwestern representative of Robert Brand & Sons Co., of Oshkosh, Wis. Work to be in Verde antique and English veined Italian marble, bronze and mahogany, and will include the floor work, lighting and decorating. Designs are by Arthur Alexander.

Sealed bids will be received by county board until Monday, March 23, 1914, at 11 o'clock a. m., at which time the said bids will be opened by the board of county commissioners of Hennepin county, for repairing bridge No. 55 on road No. 29 (Cedar av.), according to specifications on file in the office of the county surveyor.

Work on a \$35,000 theological seminary to be erected in the Twin Cities by the Swedish Baptist conference of North America will be started early in May, it was announced by Rev. J. A. Hagstrom, president of the Swedish Baptist academy in St. Anthony Park. The building will be located near Snelling and Como avs.

C. E. Bell, architect, 310 Security Bank building, has sketches in progress for a factory, \$5,000, at Waterloo, Iowa, for Dart Manufacturing Co., Waterloo. Common brick, steel trusses, tar and gravel roof, metal skylight, structural iron, Barrett specification roof.

O. K. Westphal, architect, Northwestern block, completed plans this week for a duplex, 22d and Irving S., for P. J. Murphy, 2844 Irving av. S.; frame and stucco, two hot water heating plants, tile baths. 32x73, sun parlors, hardwood throughout, plans out, owner taking figures.

Minneapolis Steel & Machinery Co. received the contract for the 370 tons of steel in a new building at Seattle. Contract for steel and First National Soo building also let to this company, calls for 3,500 tons.

The county board opened bids this week for a motor truck and trailer to be used for hauling material. Bids for an orange peel dredge to be employed on the linking-of-the-lakes canal work also were opened.

A brick office and flat building will be built by Henry Rauch, 523 Plymouth av., at 625 Plymouth; 27.6x80, 2-story, stone foundation, hardwood trimming, plumbing, heating, wiring, \$7,500. Henry L. Muther, contractor, 4600 Zenith av.

E. H. Sund, architect, Andrus building, will furnish the plans for the hospital to be built by the Goodhue county sanatorium commission, Cannon Falls, Minn. P. A. Peterson, Cannon Falls, secretary; \$22,000, thirty patients, frame.

A. W. Greening, 411 W. 35th, is building a plaster veneer dwelling at 4008 Pleasant av.; 1½-story, 24x26, \$3,500; hardwood trim, plumbing, gas, hot water heat, concrete block foundation. O. B. Currier, builder, 3416 Blaisdell av.

Work on Landers-Morrison & Christianson, Co. modern plant at 29th and Dupont S., on Milwaukee tracks, was started this week, by the excavating contractors, S. J. Groves & Sons, Kasota block; tunnel, team tracks, etc.

A bakery building will be erected by Matt H. Kaehn, 241 20th av. N., at 1329-31 N. 4th st.; 36x60, 2-story, plaster veneer, concrete foundation, store front, plumbing, wiring, heating; \$2,700. Contract not let.

A. R. Van Dyke, architect, McKnight building, has furnished plans for a garage, 2100 Irving av. S., for Dr. A. J. Watson; frame and stucco. Danielson Bros., 4651 Aldrich av. S., contractors.

Wm. M. Smith will build a 1½-story plaster veneer dwelling at 2441 5th av. S.; concrete block foundation, hardwood floors and finish, hot water heat; \$3,000. F. Peoples, contractor, Boston block.

A modern duplex will be built by Chas. Stenberg, 3231 Blaisdell, at 3235 Blaisdell; concrete foundation, hot water plants, tile baths, cost \$6,000; 30x54. Plans by Hammar, Day labor.

The Avery Steel & Iron Co. are furnishing the iron work for F. E. Graves' new building at 2522 Nicollet av., next to his garage building, for which they furnished the iron work previously.

Frank E. Hough, The Leamington, is building a modern dwelling at 4355 Garfield; 26x36, concrete block foundation, hot water heat, hardwood throughout, plumbing, gas, day labor, \$4,000.

A store and flat building will be built by Anton Piersiok, 435 Marshall; 23x47, 2-story, brick, three flats, concrete block foundation, plumbing, heating, wiring; \$4,000; day labor.

\*Contract for vacuum cleaner system, Chisholm, Minn., high school, was awarded to Robinson-Cary-Sands Co., St. Paul, for Spencer turbine, 3-sweeper plant, Tyrie & Chapman, architects, Auditorium block.

\*Kees & Colburn, architects, Donaldson block, will prepare plans for a 7-story office building at Sioux Falls, S. D., for Look & Look; modern. Plans may be ready in a month.

A duplex will be built by Carl Peterson at 2900 E. 24th st.; 26x42, plaster veneer, concrete foundation, hardwood trim and floors, electric light and gas, \$3,000; day labor.

Russell Grader Manufacturing Co., Minneapolis, was awarded contract for all metal culverts required by county, Yankton, S. D., during year; Julius Engel, county auditor.

The Avery Steel & Iron Co. are furnishing the iron work for alterations to Thoen Bros.' building, 32-36 S. 6th st.; A. Albinson, contractor, Plymouth building.

\*Bids will be taken April 1 for building a 1-story, brick school, district 54, Anoka county. Check for 5 per cent. Address Will Clarke, Anoka, Minn., Route 4.

Frankman & Morris, contractors, J. J. Frankman, 3310 Park av., received the contract for the Northern Pacific viaduct at Belknap st., Superior, Wis.

Bids received until 2 p. m., Mar. 27, for kitchen equipment; North High school, board of education. E. S. Stebbins, architect, Masonic Temple.

Calder Construction Co. has contract to build Chanhassen State Bank at Chanhassen, Minn., and contract for Farmers' State Bank, Colone, Minn.

Mary E. Thomas, 2633 Bloomington av., is building a duplex at 3020 10th av. S.; 26x44, plaster veneer, modern, hot water heat; \$5,500. Day labor.

Site for \$90,000 gymnasium at state university farm school has been selected; athletic field will be enlarged; work on gymnasium will begin Aug. 1.

Plans for a hay terminal under consideration by St. Paul hay board, and Minneapolis Hay Board of Trade, Chamber of Commerce building.

\*C. A. P. Turner, engineer, of the Turner mushroom system, has purchased twenty-two acres, 36th and Washington av. N. and river.

F. H. Nutter, Northern Dredge & Dock Co., says that dredging Lake Nokomis will begin in May. Machinery being assembled.

\*Plans for a \$20,000 home for girls and for enlarging Scandinavian Home of Shelter, 3428 Oakland, are under consideration.

Central high school alumni will spend \$2,500 for a 125-foot flagstaff, with bronze tablets on the concrete and granite base.

\*Chapman & Magney will have plans of the new Saxe theater, 7th st., out for figures this week; taken by the architects.

Northern Pacific road has purchased block between Pacific and Mill sts., 26th and 27th av. N., for terminal improvements.

The Avery Steel & Iron Co. are furnishing the iron work to Adams Bros., for the store, corner Queen and 20th avs. N.

Bids are wanted for turnpiking streets in Edina village. Work to begin at once. Warden, 306 Plymouth building.

Building and store of Russett Bros., 2327 Washington av. N. was damaged \$2,000, by fire.

A \$50,000 addition, four-story, to the Swedish hospital, 8th st., is planned.



# PROPOSAL ADVERTISING FOR BIDS

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COPY RECEIVED up to Friday, 10 a. m., will be published in the paper, delivered to subscribers on Saturday, but should reach the publication office, Lumber Exchange, Minneapolis, earlier in the week, when possible.

LATE NOTICES Friday morning can be transmitted by long distance telephone.

### NOTICE TO ROAD CONTRACTORS.

Walker, Minn.

Sealed proposals will be received at the office of the County Auditor of the County of Cass, State of Minnesota, at the Court House in the village of Walker, until 2 o'clock P. M., Saturday, March 28, 1914, for constructing State Rural Highway No. 45, in township 143, ranges 25, 26, 27 and 28, Cass County, Minnesota.

The highway will be 23.6 miles long, will comprise:

52.25 acres of clearing,  
104.85 acres of grubbing,  
27,223 cubic yards of grading,  
10.25 miles of turnpiking,  
50,873 cubic yards of ditching,  
20,031 cubic yards of surfacing,  
2 box culverts.

Complete plans and specifications of said highway may be seen at the above named office, at the office of the State Highway Commission, at the Stanton Hotel, Federal Dam, Minnesota, which is the westerly terminus of the highway, and at office of Engineer in charge. Each proposal must be accompanied by a certified check for not less than 10 per cent of the amount bid, made payable to the County Auditor, of said Cass County, as evidence of the good faith of the bidder and as a guarantee that the bidder if successful will enter into contract and furnish the required bond. All bids must be made on blank forms which will be furnished by the engineer in charge. Bids will be received on the whole job or on one or more sections. The right is reserved to reject any or all bids.

I. P. BYHRE,  
County Auditor, Cass County, Minn.  
GEORGE A. RALPH,  
Engineer in Charge,  
380 Shubert Bldg., St. Paul, Minn.

(Continued on page 16)

## PROFESSIONAL DIRECTORY

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## ST. PAUL, MINN.

404 Scandinavian American Bank Building. Phone: N. W. Cedar 1683. Mail or telephone news not later than Wednesday.

## Building Permits.

Herman C. Gurke, 594 Winslow, 1-story frame dwl., Lincoln near Dunlap; Herman C. Gurke, builder....	2,500
Wm. H. McClintock, 1-story brick store, 4th near Wabasha; P. O. Hallander, builder .....	7,000
Wm. Gould, Como av., 1½-story frame dwl., Como near Kent; J. V. Newlander, builder .....	2,500
G. A. Johnson, 1093 Minnehaha, 1½-story frame dwl., Reaney near English; G. A. Johnson, builder....	1,400
John Rolada, 461 Michigan, 2-story brick dwl., Oneida near St. Clair; C. Bozinsky, builder .....	3,000
D. M. Andrews, Minneapolis, 1-story frame dwl., Cleveland near Scudler; Ed. Gilbert, builder.....	2,000
Elizabeth Haxton, 1851 Goodrich, alterations and repairs, 974 Hague near Milton; C. L. Haxton, builder .....	1,000
Stan Gambo, 2-story brick store and dwl., Arcade near Jenks; J. M. Lees, builder .....	3,400
Homier H. Hays Co., 1-story frame dwl., Milton near St. Clair; Victor J. Sandell, builder.....	1,500
Victor J. Sandell, 1442 Sherburne, 1½-story frame dwl., Sherburne near Albert; Victor J. Sandell, builder....	2,400
H. H. Hoyt Co., 6th and Jackson, 1-story frame dwl., Edmund near Lexington; Victor J. Sandell, builder .....	2,000
Ed. Tahedl, builder, 615 Lafond, 1½-story frame dwl., Lafond near Dale .....	2,000
H. J. Rustad, 1477 Iglehart st., 1½-story frame dwl., Iglehart near Pascal; H. J. Rustad, builder.....	2,500
St. Paul City Ry. Co., 1-story brick shop, 406 Snelling near University; St. Paul City Ry. Co., builders....	30,000
Theo. Schultz, 3-story brick, alterations and repairs, 381 Robert near 5th; Grant Constr. Co., builders....	11,000
Cushing & Driscoll, agents, 3-story brick, alterations and repairs, 375 Robert near 5th; Grant Const. Co., builders .....	12,000
J. W. Mason, agents, electric freight elevator, E. 4th near Sibley; Lee & Hoff, builders .....	1,350
Casey Milk Co., electric freight elevator, Franklin near Eagle; Lee & Hoff, builders .....	1,000
Anna S. Klein, 415 Selby, 2-story frame dwl., Selby near Avon; Simon T. Johnson, builder.....	4,500
Sam Croenke, 554 Dayton, 1-story frame dwl., Lexington near Thomas; Sam Croenke, builder.....	3,000
Jacob Heck, 93 E. 7th, 2-story brick repairs account of fire; M. J. Hartigan, builder .....	4,600
The Golden Rule, 4-story brick alterations, E. 7th near Minnesota; The Golden Rule, builders.....	100,000
Frank O. Palm, 951 Greenbrier, 1½-story frame dwl., Lawson near Greenbrier; Andrew Olson, builder.	1,800

Contract awarded to Thomas J. Steen Co., New York City, to build Tennessee marble superstructure public library at \$430,100; same material as Hill library adjoining. Equipment bids on plumbing and heating, etc., to be acted on Friday afternoon, March 20. J. B. Jones, of Grey Eagle Marble Co., Knoxville, Tenn., attended letting and company will furnish the marble. Low bids scaled down from \$453,000. Reinforced concrete substitutions for steel. Change in interior preparations; drednaught floorings instead of cork tiling. Butler Bros. Co., New York Life building, general contractors of Hill reference library. Board has about \$82,000 for mechanical equipment.

Hartford & Jacobson, architects, Capital Bank building, report contracts on the Sacred Heart hospital at Yankton, S. D. General contract, Bailey-Marsh Co., Minneapolis, \$97,601; heating and plumbing, Thomas Moran, Sioux City, Iowa, \$22,500; electrical work, Olson-Boettger Co., St. Paul, \$4,200; elevators, Kinball Bros., Council Bluffs, Iowa, \$2,645; dumb waiter, Burdett-Rowntree Co., Chicago, Ill., \$1,420; equipment sterilizing and refrigerating fixtures, not let.

Paul Steenberg Contracting Co., 1631 Laurel, general contractors of the parochial school, College and 3d, for St. Paul diocese, have the work advanced to the concreting. Mill work let to Stillwater Manufacturing Co.; steel, St. Paul Foundry Co.; glass, Pittsburgh Co.; brick and tile, Twin City Brick Co.; reinforcing steel, Paul J. Kal-

man Co.; roofing, plastering, painting, electric work, not let. E. L. Masqueray, architect, Endicott building.

E. L. Masqueray, architect, Endicott building, has let contracts for St. Joseph's college and service building, Dubuque, Iowa, heating and plumbing to Lincham & Molo, Dubuque, at \$59,000; pews, Pro-cathedral, Minneapolis, to E. Hackner, La Crosse, Wis., \$5,322; quarter-sawn oak; marble work, Pro-cathedral, Breen Stone Co., \$6,120; maple floors, Pro-cathedral, H. J. Bauman, Minneapolis, \$1,838.

Butler Bros. Co., New York Life, have planned and will build the armory and club house of St. Thomas College, Summit and Cleveland. Indoor track, auditorium, seating 900, and gymnasium, two drill halls and shooting gallery, 2-story and basement, 100x58 and 230x100; \$70,000; press and common brick, tar and gravel roof, structural iron. Rev. J. H. Moynihan, president.

Buechner & Orth, architects, Shubert building, will have the Ramsey county poor house out for figures next week; brick, slate roof, 2-story, fireproof; plans for Grand Forks Bank and office building, Scandinavian-American Bank and Northwestern Trust are out for figures. No date set.

Minneapolis Steel & Machinery Co. got the contract for the steel of the Merchants' Bank and office building; 16-story; plastering, Geo. Slater, 1073 Goodrich av.; ornamental iron, Herzog Iron Works; plumbing, W. P. Nelson Co., Chicago. Geo. J. Grant Co., general contractors.

H. E. Erickson, architect, Union block, prepared plans for remodeling a building into a hotel, three floors, composition roof, skylights, for David Poloit, Sibley st.; 24x90; cost, \$5,000; fire escapes, galvanized sheet metal, wired, ribbed glass, birch and maple floors and finish.

Alden & Harris, architects, have prepared plans for rebuilding after fire 91-93 E. 7th. Parisian Cloak Co.; interior and exterior alterations, steel ceiling, skylight, plumbing, heating, wiring, tile floors, plate glass windows; day labor.

A. L. Garlough, architect, Rosen building, has furnished plans for a 1½-story frame dwelling, Palace and Harbor, for Frank Machovec, 997 W. 7th st.; 24x30, sleeping porch, hot water heat, modern.

Plumbing contract for the Merchants National Bank, skyscraper, one of the largest plumbing contracts that has been let for a number of years, was awarded to F. J. Spriggs, 43 W. 4th, at \$40,000.

Anna S. Klein, 451 Selby, is building a modern residence, Selby near Avon; 28x28, 2-story, hot water heat, fireplace, sun room, sleeping porch; \$4,500. Simon T. Johnson, builder, 1857 Capitol av.

F. H. Ellerbe, architect, Endicott building, has prepared plans for remodeling, 381 Robert; Theo. Schultz, owner; Geo. J. Grant Co., contractors; 2-story, brick, \$11,000; 375 Robert; Cushing & Driscoll; Geo. J. Grant Co., contractors, \$12,000.

A brick store is being built by Wm. H. McClintock, 4th and Wabasha; 41x100, plumbing, heating, wiring, \$7,000. P. O. Hallander, contractor, 828 Metropolitan Life building, Minneapolis.

Toltz Engineering Co., Pioneer building, received bids until Friday, Mar. 20, on the Ideal theater, South St. Paul. Bids opened Wednesday, for remodeling Abbott Constans building, Robert st.

Work on \$500,000 Golden Rule building has been started; 5-story. F. J. Romer Construction Co., 190 Ramsey st., general contractors. S. W. Dittenhofer, vice president Golden Rule Co.

John F. Fischer, 753 Wabasha, is preparing plans for a business building, Rice st., for Miller-Hoffman Hardware 904 Rice; store and offices, with picture theater. Plans ready soon.

Alden & Harris, architects, have plans out for figures, brick and terra cotta, fireproof store building, 3d and Robert. Bids received until 12 noon, Mar. 24, by architects.

A. M. Gould, Como av., has taken permit for modern dwelling, Como and Dale, \$3,500; frame, 24x36, hot water heat. J. G. Newlander, 751 Portland, contractor; \$2,500.

Victor J. Sandell has the contract for a 1½-story, modern cottage, on Edmond near Dunlap for the H. H. Hoyt Co., 395 Jackson.

Bids received until 11 a. m., March 31, at mayor's office, for 270 lockers, high schools, specifications on file. Room 80, Court House. Construction of club house for the Wee Quah Canoe Club this summer is assured. Wm. Swanstrom, commodore, 623 E. Rose.

Addition to cost \$30,000 is being built by St. Paul city railway, College and Wabasha, 1-story, brick shop; 90x178; 406 Snelling.

Plans for remodeling old chemistry building, state university, include dining hall for 500 small theater and dancing floors.

Samuel Croenke, 554 Dayton, is building a

modern frame dwelling; hot water heat, 28x42; Lexington near Lafond, \$2,000.

St. Paul Academy has bought twenty-seven acres from Allen McQuillan, for country school, Snelling near Randolph.

Jacob Heck, 93 E. 7th, is making repairs after fire; 2-story, brick, \$4,600. M. J. Hartigan, 535 Capitol, contractor.

## HEAD OF THE LAKES

Office: 206 Manhattan Building. Telephone: Auto 3036. Mail or telephone news not later than Wednesday.

## Building Permits.

Davis Realty Co., repairs to fire damaged building, South Side, W. Michigan st. ....	10,000
J. Laasard, hollow tile dwl., Oneida st., between 43d and 44th avs. ....	2,800
Zalk & Josephs, repair, fire damaged store, W. Michigan st., between 21st and 22d .....	1,000
Horace Brown, frame dwl., south side of Lancaster av. ....	5,000
Board of Education, brick school, 2-story, SE. 8th st. ....	50,000
Zalk & Joseph, repairs to fire damaged store, SW. Michigan st. ....	1,000
John Lazzard, tile dwl., Southside, Oneida st. ....	2,500

The \$300,000 warehouse and offices for Gowan, Lenning & Brown Co., 5th av., will be 6-story and basement, 160x260; \$300,000, Lake av. S. and government canal; architect, F. G. German, 411 American Exchange Bank Building Association. Architect, Lief Jenssen. Owners, Gowan, Lenning & Brown Co., 5th av. W., preparing sketches. Face and common brick, stone trim, reinforced concrete, frame and slabs, tar and gravel roof, metal skylight, structural iron.

Sub-contracts on the Munger school, for which Holstead & Sullivan are the architects, include: Structural iron to National Iron Co.; reinforced steel, to Trus-Con Reinforced Co., St. Paul; tar and gravel roofing to Dietz & Co., 311 Superior st.; steam heating and plumbing to Stack Bros., 217 E. 1st st.; electric work to F. O. Peterson, 20th av., Duluth. General contractors, Jacobson Bros., 501 Columbia building, Duluth.

Jacobson Bros., general contractors, 501 Columbia building, have let subcontracts on the jail and sheriff's residence, Carlton, Minn.: Tar and gravel roofing let to Dietz & Co., 311 Superior st., Duluth; plumbing to J. P. Adamson & Co., 1920 University av., St. Paul; steam heating to O. Bruno, Cloquet, Minn.; plastering to Tom Kelly, Superior, Wis. V. J. Price & Co., architects, Duluth.

F. G. German, architect, Lief Jenssen Association, has prepared plans: Residence; 2-story and basement, 32x51, \$18,000; 21st and 1st sts. E. Owner, Bernard Silberstein, 31 W. 2d st. In abeyance. Residence; 2-story and basement, \$8,000, Hunters Park. Owner, S. E. Atkins, 1914 Woodland av. Plans in progress. Hollow tile, stucco, shingle roof.

The proposed building for the Moose lodge will be located between Bristol and Roosevelt st., on Central av.

Contracts on the bank and store, Crosby, Minn., W. S. Pitt, owner, Crosby, have been let: Brick, stone. General contract let to Ed. Gustad, Crosby; steam heating, plumbing and plastering to Joe Pollock, Crosby; electric work to Blake Electric Co., Crosby. V. J. Price & Co., architects.

Edward P. Shurick, architect, 1005 Torrey building, is preparing plans for three houses to be built at Lakeside by a local real estate firm. He also is preparing plans for a frame residence for Z. Kohnckwitz at Hibbing, to cost about \$3,800.

Holstead & Sullivan, architects, have plans out for figures for a home to be built for C. E. Wallace at 2101 E. 4th st., at an estimated cost of \$9,000; brick.

H. Brown will erect a home in Kenilworth Park at an approximate cost of \$5,000 and L. Laasard has started a hollow tile residence on Oneida st. between 43d and 44th avs. E. which will cost about \$2,800.

Friday of last week the 2-story frame residence of Walter Janov at 552 S. 5th av., Homecroft Park, was burned; loss, \$2,500, with insurance of \$1,200.

Arthur Hanford, architect, has plans in hand for a frame dwelling for H. G. Duan at Woodland av. and Garden st., to cost about \$5,000.

## SUPERIOR.

Preliminary plans and specifications have been prepared and submitted to Bishop Koudelka for an orphanage which will ultimately cost \$150,000 to be built for the Catholic diocese of Superior, and it is hoped to have work started by May 1; Vicar General Scheyer will be given charge of the work during the absence of Bishop Koudelka.

Th contact for the erection of the extension of the Belknap street viaduct has been let to Frankman Bros. & Morris, a Minne-



# CONTRACTORS BONDS AND EMPLOYERS LIABILITY INSURANCE

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HILLSBORO, N. D.

### NOTICE FOR BIDS.

School, Mauston, Wis.

The undersigned hereby gives notice that sealed proposals for the erection and completion of a solid brick and stone School Building, including all labor and material, will be received by the School Board at Mauston, Wis., until the hour 4:30 P. M., on the 15th day of April, 1914.

All bids must be in strict accordance with the plans and specifications prepared by Parkinson & Dockendorff, Architects, of La Crosse, Wis., which may be had on application to the Architects.

A certified check for two (2%) per cent of the amount of bid, payable to the order of the School Board, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on the letting of the contract.

The party to whom the contract is awarded will be required to give a satisfactory bond of fifty (50%) per cent of the amount of the contract for the faithful performance of the contract.

The Board reserves the right to accept any or reject any or all proposals presented.

Signed:—

M. L. BUNNEL,  
Clerk.

## PROPOSAL ADVERTISING FOR BIDS.

### NOTICE TO CONTRACTORS.

School, Cooperstown, N. D.

Sealed proposals will be received by the clerk of the Board of Education at Cooperstown, N. D., up to 1:30 P. M., of Friday, April 3, 1914, for the erection and completion of a school building, to-wit:

1st, for building complete, without heating and ventilating apparatus.

2nd, bids may be made separately, to-wit: (a) for material alone; (b) for labor alone.

Proposals for steam heating and ventilating apparatus will be received at the same time.

Plans and specifications may be seen after March 18th, with the clerk of the school board at Cooperstown, at the Fargo Builders' Exchange, and at the office of the Architects.

Each bid on the building, labor or material to be accompanied by a certified check for \$500.00, and each bid on heating and ventilating systems with a certified check for \$200.00, made payable to the clerk of the Board.

The checks of successful bidders will be forfeited to the school board should they fail to enter into contract and furnish satisfactory bonds, in accordance with state law, for the faithful execution of the work.

Bids must be plainly marked on the outside of envelope, "Sealed Bid for ....., " (specifying for what part of work).

The right to reject any or all bids is reserved.

By order of the School Board,  
CHAS. BURSETH, President  
OSCAR D. PURINTON, Clerk.  
HANCOCK BROS., Architects.

### NOTICE TO CONTRACTORS.

Street Grading, New Ulm, Minn.

Sealed bids will be received by the City Clerk, at New Ulm, Minnesota, up to 5 o'clock P. M., April 8, 1914, at his office in said city for the furnishing of all material, tools and labor necessary for grading, graveling and boulevarding of Seventh South Street from German to Washington Streets, Broadway Street from Fifth South to Seventh

South Street, State Street from Sixth South to Seventh South Street, Washington Street from Fifth South to Seventh South Street, to be let in four separate contracts, all according to plans and specifications on file in the City Clerk's office.

All bids must be sealed and marked "Proposals for Grading either of above named streets," and be accompanied by a certified check in the amount of 5 per cent of the bid, made payable to the City Clerk, to be forfeited to the City as liquidated damages in case the successful bidder fails to enter into contract and furnish satisfactory bond within three days after the acceptance of his bid.

The City Council reserves the right to reject any or all bids.

Dated New Ulm, Minn., March 6, 1914.  
(Seal) ALBERT J. MEYER, City Clerk.  
F. D. MINIMUM, City Engineer.

### NOTICE TO CONTRACTORS.

Sewer, New Ulm, Minn.

Sealed bids will be received at the City Clerk's office, at New Ulm, Minnesota, up to 5 o'clock, P. M., April 8, 1914, for furnishing all material and labor for the construction of Sewers on Broadway Street, from Fourth to Seventh South Street, Washington Street, from First to Seventh South Street, and on Third South Street from State to Washington Street, all according to plans and specifications on file in said City Clerk's office. All bids are to be sealed and marked "Proposals for Broadway-Washington Street Sewer," and accompanied by a certified check in the sum of 10 per cent of such bid, made payable to the City Clerk, to be forfeited to said city as liquidated damages in case the successful bidder fails to enter into contract and furnish satisfactory bond within three days after the acceptance of his bid.

The City Council reserves the right to reject any or all bids.

Dated New Ulm, Minn., March 6, 1914.  
(Seal) ALBERT J. MEYER, City Clerk.  
F. D. MINIMUM, City Engineer.

(Continued on page 17.)



SEND US YOUR PLANS  
Our figures cost nothing, and  
YOU WILL SAVE MONEY

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such as Cornices, Steel Ceilings, Skylights,  
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and Ornament Co.**  
ST. PAUL, MINN.



## PROPOSAL ADVERTISING FOR BIDS

## SALE OF DITCHING JOBS.

Aitkin, Minn.

Notice is hereby given, that on the 14th day of April, 1914, at 10 o'clock a. m., at the Auditor's office in the Village of Aitkin, Minnesota, I will sell the jobs and let the contracts for digging and constructing the Ditch No. 20 of Aitkin County, established by the Board of County Commissioners of Aitkin County, State of Minnesota, by their order to bear the date of April 7, 1914, viz: In one job and contract, or in sections of 100 feet each, each of said sections to be known and numbered by stakes, as shown by the report of the Engineer in said matter, commencing at the one including the outlet, and from thence, successively, up stream to the one including the source; which ditch contains the approximate amount of work following, viz:

1,199,832 cubic yards.

and the estimated cost of which ditch is Two Hundred Ten Thousand and Five Hundred Sixty Two and sixty-three-one-hundredths (\$210,562.63) Dollars, and Bridges and Culverts accord-

ing to specifications on file in the Auditor's office, to the lowest responsible bidder or bidders, and that bids are invited for said work as one job, and also for any one or more sections thereof; said work to be completed within the time required, and in the manner specified in said Engineer's report. And no bid will be entertained which exceeds more than thirty (30) per cent over and above the estimated cost of the construction of the part of said work covered by such bid; and the successful bidder will be required to give a satisfactory bond in a sum not less than the contract price, to be approved by the Auditor of said County, with two freehold sureties, for the faithful performance and fulfillment of his contract and to pay all damages that may accrue by reason of his failure to complete the job within the time required in the contract. The said order and estimates and profile are on file, and may be seen at my office.

All bids must be accompanied by a certified check, payable to the Auditor of said County, for not less than ten

per cent of the amount of each bid.

The right to reject any and all bids is hereby reserved.

Dated, February, 1914.

J. B. LEMIRE,

County Auditor, Aitkin County,  
State of Minnesota.

## STATE ROAD WORK.

Blue Earth, Minn.

Notice is hereby given that State Road work will be let on March 30, 1914, at 1 o'clock, p. m., at the Auditor's office in the City of Blue Earth, Minn., by the County Board of Faribault County, consisting of Grading, Turnpiking and Culverts complete, according to plans and specifications on file at the Auditor's office. A certified check of 5 per cent must accompany each bid. Right to reject any and all bids is hereby reserved.

Dated March 16, 1914.

S. C. ARMSTRONG, S. R. Eng.,

Fairmont, Minn.

JESSE L. HERRING,

County Auditor.

(Continued on page 18)

apolis contracting concern, by the Northern Pacific railway, and work will be started immediately.

The driving of the piling for the foundation of the new municipal boat house at Billings Park has been completed and preparations are being made for the erection of the superstructure.

John W. Johnson has purchased two lots on Maryland av. near 21st st., and will build a modern bungalow.

## OMAHA, NEB.

## Building Permits.

G. Rundgsen, 916 S. 25th, frame dwl.,	4,000
Joseph Barker, 2612-14 Sherman av.,	
brick store; alterations.....	1,500
Payne & Slater Co., 622-630 Williams,	
four frame dwls., each.....	2,000
Berka & Musil, 1725 S. 15th st., frame	
dwl. ....	2,000
G. W. Elred, 4502 N. 14th, frame dwl.	1,500
Joseph and Fannie Vogl, 3002 S. 21st	
frame dwl. ....	2,500
Oscar Hug, 2116 Bancroft, frame dwl.	2,500
Anderson & Carlesen, 3426 California,	
frame dwl. ....	2,500
A. P. Renander, 2615 Maple st., frame	
dwl. ....	2,000
N. J. Naylor, 2517-19 Hickory, two	
frame dwls., each.....	2,500
G. W. Elrod, 4502 N. 14th, frame	
dwl. ....	1,500
Berka & Musil, 1725 S. 15th st., frame	
dwl. ....	2,000

Building operations amounting to nearly \$2,000,000 in value will be under way or completed by May 1, according to estimates of the building inspector's office. The most costly undertaking in sight is, of course, the new Fontenelle hotel, the value of the building being probably \$850,000. A permit for the erection of this building is expected to be issued within six weeks. During this month a permit for the erection of the new United States National bank will probably be issued. This will cost about \$200,000. In addition to these two big buildings, there are about 100 houses, large and small, that will be started within the next couple of months. These houses will cost between \$250,000 and \$300,000, making the total building operations in sight worth fully \$1,300,000. During the months of February and January, permits to the value of a little over \$400,000 were issued, making a grand total of \$1,750,000. In addition there will be many smaller buildings erected, and, of course, many structures planned of which the inspector's office knows nothing as yet. The trend this year will be more toward the erection of houses costing \$3,500 and more, than to the smaller cottage or bungalow style, costing below \$3,000, according to architects.

J. L. Brandies & Son have petitioned city council for permit to construct a subway under Douglas st. between the Amin Brandies stores and the Boston store building.

It is stated that H. L. Abrahams of Omaha will build two more store buildings, modern.

Missouri Pacific will erect a freight depot here; cost, \$150,000.

## Railroads

Notes arranged alphabetically by states.

**Mont., Havre**—G. N. has filed resolution to construct additional 60 miles of road from Ft. Peck reservation, up west fork Poplar river, and Cottonwood creek, county of Sheridan and Valley.

**Mont., Lewiston**—C. A. Goodnow, Milwaukee road has begun organizing forces for the electric equipment installation, "Deer Lodge to Three Forks, headquarters, Butte; F. Beewaukes, resident electrical engineer in charge; current to be sent over high tension line, carried on steel towers, electric trains to be operated January 1, 1915.

**Neb., Omaha**—Missouri Pacific road will build a \$150,000 freight depot at Semour Park, elevation of Belt line tracks promised. May construct one large viaduct. A. D. Bernardi, general superintendent, Missouri Pacific, Omaha.

**Ont., Fort William**—Canadian Northern road has submitted plans to city council for new station and freight sheds. A. Wilcox, superintendent, western line.

**S. D., Winner**—N. W. will build 35 miles extension.

**Wis., Grandview**—Fire damaged Superior Southeastern road property, \$50,000; roundhouse, machine and blacksmith shops and water tank destroyed.

**Wis., Superior**—Milwaukee road is reported surveying new line, Merrill to Superior.

**Wis., Superior**—Contract awarded to Frankman Bros. & Morris, Minneapolis, for viaduct by Northern Pacific road; Belknap st. J. J. Frankman, 3310 Park av., Minneapolis, and E. B. Banks, city engineer, will confer on street traffic delay.

**Wis., Superior**—G. N. will spend \$300,000 improving line between Twin Cities and Twin Ports.

## NEW FIRMS INCORPORATED.

**Iowa, Mason City**—Law Land Co.; capital, \$200,000; H. E. Law.

**Neb., Alliance**—Alliance Garage Co.; \$20,000; A. S. Reed.

**Neb., Wood Lake**—Woodlake Lumber Co.; capital, \$24,000. B. H. Smith, president; A. L. Sweer, vice president, and G. W. O'Hall, secretary.

**Ohio, Gallon**—The Morton Motor Plow Co.; capital, \$300,000.

**Wash., Everett**—The Everett Auto Manufacturing Co.; \$10,000.

**Wash., Spokane**—The Electric Utility Valve Co.; \$1,000,000.

## SIOUX CITY, IOWA

Office: 310 Iowa Building.  
R. U. Sager, Representative.

## Building Permits.

N. Notoff, frame dwl., Table addition	1,500
F. F. Wilson, frame dwl., Tredway's	
addition .....	2,000
D. M. Lehan, frame dwl., Smith's ad-	
dition .....	6,000

C. O. Harsha, frame dwl., Leed's ad-	
dition .....	1,000
W. F. Brvett frame dwl., Crescent	
Park addition .....	1,500
Dr. Victor Brown, frame dwl.,	
Pierce's addition .....	3,400
S. A. Aukerman, frame dwl., Leed's	
addition .....	1,500
R. & E. Muschaump, cement veneer	
dwl., Sioux City East.....	3,500
R. E. Coniff, remodeling dwl., Rose	
Hill addition .....	1,000
Palmer Fruit Co., brick warehouse,	
Sioux City East.....	20,000
Haakinson & Beatty, reinforced con-	
crete warehouse, foot of Nebraska	
st. ....	1,000
Sioux City Baseball Co., grandstand,	
Mizzou Park .....	7,000

Beuttler & Arnold, architects, Security building, are drawing plans for two apartment houses for Kalish Bros., to be erected at 23d and Pierce. Each apartment will accommodate four families. One apartment 48x65 feet; other 46x72 feet, brick, composition roof; approximate cost, \$25,000.

Beuttler & Arnold, architects, are drawing plans for a residence for Mrs. Chas. Hess on Summit av.; 2-story and basement, frame, and will cost \$4,500. They are also drawing plans for alterations and additions to a residence for R. E. Evans at Dakota City, Nebraska; addition, 26x26; cost, about \$3,000.

Wm. L. Steele, architect, United Bank building, has completed plans for a residence for J. L. Kennedy to be erected at No. 1 the Heights. He has completed the plans for a residence for W. H. Hotze, to be erected in Smith Villa Heights.

F. E. Colby, architect, Davidson building, is preparing plans for two residences for W. J. Austin at South Sioux City, Nebraska; 44x28 feet, 2-story, hot water heat; cost, \$3,500; 26x42 feet, bungalow; cost, \$2,700.

Contract for heating and plumbing for residence for F. M. Pelletier let to Lavelle & Hogan for \$1,365. Vapor heating system. The bids for the electric wiring will be opened Mar. 26. Beuttler & Arnold, architects.

Bids for the store building for G. S. Delaplaine at Cherokee, Iowa, will be opened April 1; 2-story, 24x100 feet, reinforced concrete construction. Beuttler & Arnold, architects, Security building.

Contract for warehouse for Palmer Fruit Co. was let to B. E. Short; 2-story and basement; 54x140 feet, mill construction; \$20,000. Beuttler & Arnold, architects, Security building.

General contract for residence for John A. Newton at 24th and Nebraska sts., was let to Alfred Johnson for \$8,060. Wm. L. Steele, architect, United Bank building.

Bids for residence for W. Cornish Beck will be opened Mar. 23; 25x39 feet, 2-story and basement, frame. Beuttler & Arnold, architects, Security building.

Contract for erecting school at Maskell, Nebraska, was let to a local contractor for \$4,850. Geo. W. Burkhead, architect, Grain Exchange building.

Contract for the additions and alterations



**Employers' Liability Insurance  
Surety and Fidelity Bonds.**

## FRED L. GRAY COMPANY

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IN THE NORTHWEST

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since 1892.

Security Bank Bldg.,

MINNEAPOLIS

### PROPOSAL ADVERTISING FOR BIDS

#### NOTICE TO CONTRACTORS. Road, Princeton, Minn.

Notice is hereby given that sealed bids will be received at the office of the county auditor of Mille Lacs county at the court house in the village of Princeton, Minnesota, until 12 o'clock a. m., March 24, 1914, for building state road No. 1 in said county from the quarter corner between sections 27 and 28, township 42, range 26, thence south approximately ten miles to quarter corner between sections 19 and 20, township 40, range 26, said piece of road being in the towns of South Harbor (township 42, range 26), Onamia (township 41, range 26), and Hayland (township 40, range 26), in the county of Mille Lacs, state of Minnesota.

Said work consists of clearing, grubbing, grading, turnpiking, ditching and

culverts, and bids will be accepted on complete job or separately on either five mile section thereof, and either with or without culverts.

Plans, profiles, and specifications may be seen at the above named office, or at the office of the state highway commission at St. Paul, on or after March 10, 1914.

Each proposal must be accompanied by cash or a certified check for not less than 5 per cent of the amount of the bid, payable to the county treasurer of said Mille Lacs county. All bids must be upon the blank forms furnished by the undersigned.

The board reserves the right to accept or reject any proposal.

W. C. DOANE,  
County Auditor, Mille Lacs County,  
Princeton, Minnesota.

#### NOTICE TO CONTRACTORS. Water Mains, New Ulm, Minn.

Sealed bids will be received at the City Clerk's office, at New Ulm, Minnesota, up to 5 o'clock P. M., April 8, 1914, for furnishing all material and labor for the laying of 4,370 feet of 6-inch water mains, placing gates and hydrants on Seventh South Street from German to Washington Street, and on Broadway, State and Washington Streets, from Fifth South to Seventh South Street, all according to plans and specifications on file in the City Clerk's office. All bids are to be sealed and marked "Proposals for Water Mains," and accompanied by a certified check in the sum of 10 per cent of such bid, payable to the City Clerk, to be forfeited to said City in case the successful bidder fails to enter into contract and furnish satisfactory bond within three days after the acceptance of his bid. The City Council reserves the right to reject any or all bids. Dated New Ulm, Minn., March 6, 1914.

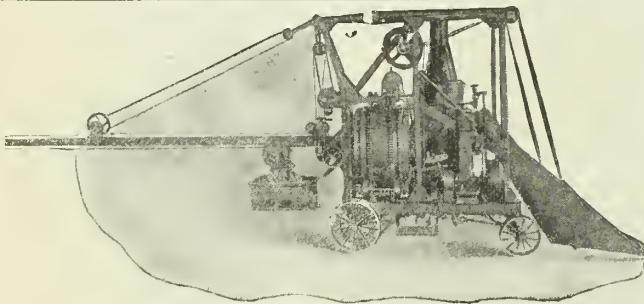
(Seal) ALBERT J. MEYER, City Clerk.  
F. D. MINIUM, City Engineer.

#### NOTICE FOR BIDS.

Sealed proposals for the construction of reinforced concrete approaches to the Minnesota river bridge at Chaska, will be received by the City Council, of the City of Chaska, Minnesota, until Monday, April 13, 1914, at 8 P. M. Plans and specifications may be seen at the office of the City Clerk. A certified check to the amount of 5 per cent of the bid must be enclosed with each proposal. Council reserves the right to reject any or all bids. By order of the City Council.

Dated at Chaska this 10th day of March, 1914.

J. M. ARETZ, City Clerk.



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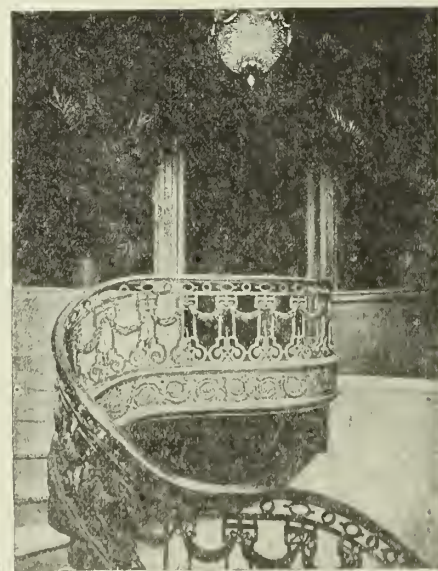
Phone us for appointment today. N. W. Annex 330.

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## Koehring Machine Co.

Milwaukee Wisconsin  
N. W. Branch Office, H. B. Jones, Dist. Mgr.,  
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## Ornamental Iron & Bronze



Stairs,  
Store  
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Lamp  
Standards  
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quises,  
Bronze  
Tablets

GATES, GRILLS, FENCING  
FIRE ESCAPES, BANK AND  
OFFICE FIXTURES

## FLOUR CITY ORNAMENTAL IRON WORKS MINNEAPOLIS, MINN.



to the residence for Dr. R. E. Coniff was let to Dubel & Anderson for \$1,500.

F. E. Colby, architect, Davidson building, is making plans for remodeling the residence for M. L. Sears in Smith Villa.

## WINNIPEG, MAN.

The first steps toward an inter-municipal hydro-electric power system were taken on the 7th, when a comprehensive committee consisting of Winnipeg, Brandon, Portage la Prairie and Carberry men with a representative of the Manitoba Grain Growers' association, was appointed to go into the entire matter and collect data as to cost, etc., of such a system. These arrangements were made at a general meeting held in Brandon. Winnipeg was represented by Mayor Deacon, Alderman Fowler, Controllers, Cackburn, McArthur and Midwinter, power engineer J. G. Glasco and Judge Robson, public utilities commissioner. Portage la Prairie was represented by Aldermen O'Brien, Metcalfe and Richardson. Gregg Barret was present from Carberry. F. C. Berry represented the Manitoba Grain Growers' association, while representatives were also present from Oak Lake, Virden and Austin.

The following permits were issued: R. James, two dwellings, Minto st., \$3,000 each; Peterson Bros., apartment block, Sherburn st., \$70,000; P. J. Allkno, 2-story store at 376 Selkirk av., \$12,000. M. Blankstein, architect; Carson Creamery Co., stable, \$5,000; S. Cohen, dwelling, Manitoba av., \$4,000; Cameron-Wood & Co., dwelling, \$3,000; Elliot Bros., \$2,600, dwelling.

Permits were issued to: J. W. Philipson for dwelling on Sherwood st. to cost \$6,000; to R. T. Heron, for dwelling to go up on Elm st., to cost \$7,000, and to D. H. James, for residence on Lipton st., to cost \$3,800.

Competitive plans may be called for the construction of the public comfort station to be erected by board of control, to cost about \$25,000.

E. Russell will erect two brick residences on Wolseley av. near Canora st., to cost \$16,000.

Garden City Land Co., 318 McIntyre block, Winnipeg, will erect a 200-room hotel.

Winnipeg Cold Storage Co. will add to plant costing \$15,800.

E. Patzler will erect a \$3,000 house, Spruce st. near Portage av.

The health department is considering erection of morgue.

Kind Edward school plan calls for expenditure of \$150,000.

## MILWAUKEE, WIS.

Office: Hathaway Building. Telephone: Main 1827. Mail news to Minneapolis office not later than Wednesday.

Consulting Engineers Vaughm, Meyer & Sweet, Majestic building, have completed plans for the following work: A vacuum system, heating and lighting for three buildings at the tuberculosis sanatorium at Wales, Wis.; also, for heating and lighting in the new addition to the hospital for criminal insane at Waupun, Wis.; and the heating and lighting for the new contagious hospital for the state hospital for insane. Plans are being prepared for the power plant, heating and lighting systems of the new female reformatory to be erected at Faycedah, near Fond du Lac, Wis. The state board of control is in charge of these institutions. Address M. J. Toppins, secretary, capitol building, Madison, Wis.

Bids will be received until Mar. 23, 1914, for labor and material necessary to construct a rock filled timber crib along shore line of Lake Park; bids on per lineal foot for 500 lineal feet and per lineal foot for 1,000 feet, more or less; bond, \$4,000. Also at the same time, bids for labor and material for constructing a pile crib shore protection at South Shore Park, an extension to present pile crib; bids on per lineal foot for 558 feet of 16 feet width and per lineal foot for 700 feet of 14 feet width; bond of \$12,000. Address Frank P. Schumacher, secretary board of park commissioners, Milwaukee, Wis.

Architects Leiser & Holst, Germania building, close bids Mar. 24, for erecting a school building for the Evangelical Lutheran Immanuel congregation at 14th and Lee sts.; solid brick construction, 2-story and basement, 106x82 and 56x42; cut stone, steam heating, composition roofing; a new church is also contemplated by the same owner at that location. These architects have awarded contracts: On duplex flat for H. Tessman on 1st st., carpenter to L. Schroeder; on store and office building for Ernst Demin at 12th and Galena sts., the carpenter to H. C. Puls, sheet metal to D. D. Green.

Architect C. W. Valentine, 428 Jefferson st., will have plans ready shortly for the

erection of a residence in East Milwaukee for Hugo Stoltz; brick veneer and stucco construction, 35x46, with hot water heating. The same architect is preparing plans for a residence for E. V. Shaw, on Summit av., between Linwood av. and Folsom place; brick veneer construction, 37x45, with hot water heating. This architect has awarded in addition to previously noted contracts on a bungalow for W. Arbuckle the following work: Electrical, Knapp Miller; painting and glazing, J. R. Owens.

Architects Martin Tullgren & Sons, 133 2d st., have awarded contracts on a 6-apartment building for Julius Strauss at Cane place and Prospect av., in addition to previously reported work; cut stone, P. Schmidt; iron work, Hackendahl & Schmidt; plumbing, Wenzel & Henoch; vapor heating, Thompson & Harriman; electrical, Kischen Electric Co.; vacuum cleaning, Quam Pneumatic Cleaner Co. On 12-apartment for same owner at Webster place and Farwell av., additional contracts: Iron work, Milwaukee Structural Iron Works Co.; painting, Spetz & Son.

Architects Kirchoff & Rose, Majestic building, are taking bids for the construction of an 8-story and basement mercantile building for the Phillip Gross Realty Co., to be located at 216-220 3d st.; to be of reinforced concrete and brick construction; bids on wrecking, cut stone, tile, composition roofing, elevators, marble, etc.; heating later. These architects have awarded the contract for excavation, mason, concrete and cement work for a bungalow of Mrs. Thebee on Lake Drive to the Dahlgren Construction Co.

Bids were opened and the following recommended for awards by county board committee in connection with reinforced concrete and cement road in Milwaukee county: Hawley road, three-quarters mile, Meyer Construction Co.; Cedarburg road, 1½ miles, Dean Construction Co.; Green Bay road, sections 2 and 3, 7 miles, Loomis road, 2½ miles, and Kilbourn road, 1 3-8 miles, Gunz, Sutknecht & Wassow Co. Approximate total cost, \$180,000. H. J. Kuelling, Pereles building, is county highway commissioner.

Architect A. C. Eschweiler, Goldsmith building, is working on plans for a 5-story, 48x120, brick, terra cotta and fireproof structure to be occupied by the Main telephone exchange of the Wisconsin Telephone Co.; to be erected on Broadway, near Wisconsin st.; steam heating; bids about Mar. 30. The same architect will also be ready for bids about the same time for a church, parsonage and convent for the St. Thomas Aquinas Catholic congregation, 36th and Brown sts.; steam heating; cost, \$75,000.

Architects Herbst & Hufschmidt, Caswell block, started taking figures Monday for erection of a duplex flat for Charles Springot at 1st av. and Lapham st.; to be 2-story and basement, 26x50, brick exterior, hot water heating, oak finish, costing \$7,000. The same architects are also taking bids for erecting a duplex flat for A. L. Theams on 24th av., between Greenfield av. and Scott st.; to be of frame and stucco construction, brick foundation, hot water heating, and cost \$6,500.

Architects Leenhouts & Guthrie, 424 Jefferson st., have started taking figures for the construction of an addition to the barn of the Gridley Dairy Co., at 7th and National avs.; to be of solid brick construction, 2-story, 51x140; composition roofing. The same architects are also ready for figures on constructing an addition to the Endeavor Academy, at Endeavor, Wis.; to be 3-story, 46x63, of brick construction.

Architect Charles Keller, Germania building, has completed plans for a bungalow for George Schley in Story Hill; owner will take bids; cement cast, birch finish, hot water heating, costing \$6,000. The same architect awarded on duplex flat at 30th st. and Grand av., the carpenter to H. W. Meyer; mason, Paul Nagtegaal; plumbing, E. H. Dish; painting, R. Kroeger & Sons.

Architect Fred Maettig, 3208 North av., is ready for bids on a bungalow at 34th st. and North av., of frame and stucco, brick foundation, 24x44, with hot water heating; also for a solid brick garage at 23d and State sts., concrete foundation, 20x26, hot water heating, composition roofing.

Architect R. E. Oberst, 353 National av., will be ready for bids shortly on erection of a 6-apartment building at 26th and National avs.; to be of solid brick construction, 3-story and basement, 52x60, with vapor heating, cut stone, marble, incinerator, etc.

Architects Kamschulte & Webster, 403 Grand av., taking bids after Mar. 17, for the construction of a private school building for Dr. Lee Wells Myllard at Grand av. and 23d st.; to be 2-story, 28x80, with separate heating plant.

Architect Stanley F. Kadow, 988 Kinnick-inn av., is taking bids for erecting a residence in Bay View, owner's name withheld; to be 26x36, 2-story and basement, of frame construction, with brick foundation, hot air heating.

The Sterling Engineering Co., which has the general contract to erect a new ware-

house at 417-423 Prairie st., has awarded the contract for stairways to Christian Erickson; in addition to previously reported contracts.

Architects Van Ryn & De Gelleke, Caswell block, ready for bids about Mar. 24, for erection of a bank building for State Bank of Whitewater, Wis.; to be brick, 2-story, 26x61, with hot water heating.

Architect Alfred C. Clas, Colby Abbot building, is preparing plans for a new public entrance and stone steps for the Auditorium, 5th, State, 6th and Cedar sts. Joseph Grieb, manager.

Contract for constructing a new school in district No. 9, West Allis, was awarded to Matthew Marks at \$1,686; next lowest, Fred Garvens, \$2,240; Marks Bros., \$2,252.

Architects Schnetzky & Son, 1320 Cedar st., have awarded the contract for painting the exterior of the Germania building to Ernst Holland.

## DES MOINES, IOWA

Bert N. Mills, Representative.  
310 Hubbell Building.

Morrison & Thorne, Des Moines firm, has completed plans and specifications for the New Lawn apartments to be built this spring at 6th and Indiana av. by M. T. Murphy. It will be three stories high and faced with tapestry brick.

The contract for the addition to North high school, Des Moines, was awarded this week to M. J. Neumann & Co., for \$109,000. M. J. Corcoran got the plumbing bid for \$24,814. Work is to begin at once.

Fuhrmann brothers of Dubuque announce they will build a business block to cost \$14,500 at the corner of 12th and Clay sts. Plans are yet to be drawn. The firm is engaged in the clothing business.

Work on the new federal court building in Des Moines to cost \$150,000 is expected to begin this spring. The government agent was here this week to prepare a report on various sites.

Hal S. Chase, Des Moines grocer, this week ordered preliminary plans for a new apartment building on 42d st. and Grand av.

## FARGO, N. D.

Bids received until Mar. 25, 7 p. m., for 2-story and basement convent building for the Sisters of St. Benedict, at Moorhead, N. D. Plans at Builders' Exchange, Minneapolis and St. Paul. Separate bids for plumbing, heating and wiring. Check for 5 per cent. A. J. O'Shea, architect, Fargo, N. D.

Bids received until Mar. 24, 12 noon, for 2-story store and office building; brick, for S. Levin, Fargo, N. D. Plans at Builders' Exchange, Minneapolis and St. Paul. Separate bids for plumbing, heating and wiring. Check for 5 per cent. A. J. O'Shea, architect, Fargo, N. D.

It is expected that more dwelling houses will be built in Fargo this year than ever before in the history of the city, the demand is constantly increasing and for rent signs are very few and far between.

Petitions are being circulated to bond city for \$80,000, and take over auditorium, now being built; estimated total cost of building, \$100,000.

A. P. Hanson of Litchfield, N. D., will erect a 1-story, brick block; 25x70. Bids close Mar. 25. No heating.

T. F. Powers & Co. were awarded contract for erection of a 2-story store building for Idelkope Bros. of Fargo.

Ole O. Dahl will erect a 1-story, brick block at Litchville; 30x80. Bids taken until Mar. 25.

## Miscellaneous

Notes arranged alphabetically by states.

**Wis., Racine**—The public park board has proposed to dam Root river at Cedar Bend, the cost to be about \$5,000.

**Wis., Union Grove**—The Meredith Flower & Vegetable Co., Chicago, has purchased twenty-two acres of land near here and are expecting to build a greenhouse which will cost in the neighborhood of \$50,000. T. L. Meredith, president.

### BIDS WANTED.

**Ill., Rock Island**—Bids received by G. M. Hoffman, major of engineers, until 2 p. m., April 16, for approximately 90,000 cubic yards of earth works for the repair of the Flint Creek-Iowa River levee.



## KEEP TALKING---LINO FELT--"Between you and the weather"

If the cold of winter prevents you working on the outside, there is still time to save your customer money on his fuel bill by putting LINO FELT between or over the studding. This is **Inside** information. Talk to him about putting LINO FELT in the walls and roof of his home not only because he can save fuel in winter, but because LINO FELT keeps the heat out in summer, and the sound waves stop when they meet LINO FELT, insuring Comfort the year around.

**UNION FIBRE COMPANY, --:- WINONA, MINNESOTA**

### PROPOSAL ADVERTISING FOR BIDS

#### PROPOSALS WANTED.

Parsonage, Kranzburg, S. D.

Sealed bids will be received for the erection of a two story brick residence for the Catholic Congregation of Kranzburg, So. Dak., in accordance with plans and specifications prepared by M. A. Hockman, architect, of Watertown, S. D. Bids will be opened April 1, 1914. All bids must be accompanied by a certified check for 2 per cent of the bid. Plans and specifications may be seen at the office of Rev. Jos. Zimmermann at Kranzburg, S. D. or at the Office of the architect.

The committee reserves the right to reject any and all bids.

REV. JOS. ZIMMERMANN, Kranzburg, S. D.

#### NOTICE FOR BIDS.

For Construction of Sewers, Manholes and Flushtanks, Carlton, Minn.

Sealed proposals for the above work, endorsed with the above title will be received by the Village of Carlton in the county of Carlton and State of Minnesota at the office of the Village Recorder in said village until 8 o'clock P. M., of the 6th day of April, 1914, at which hour the bids will be publically opened and read.

Each bid shall be accompanied by a certified check for ten (10) per cent of the amount of the bid, payable to the order of the Treasurer of the Village of Carlton and in case such bid is accepted and the bidder neglects or re-

fuses to enter into the proposed contract with the Village, his check shall be forfeited to the said Village as liquidated damages. All such checks except that of the successful bidder will be returned to the person depositing the same within three days after the contract is awarded. Complete plans and specifications for the above work, together with a copy of the proposed contract may be examined at the office of the Village Recorder of said Village of Carlton and also at the office of the Builders' Exchange in the City of Duluth, Minnesota.

The bids will be compared on the basis of the Engineer's approximate estimate of quantities of work to be done, which are as follows:

2,627 cubic yards earth excavation and back filling.

140 cubic yards rock excavation.

1,600 lineal feet sewer pipe in place, 15-inch.

253 lineal feet sewer pipe in place, 12-inch.

1,612 lineal feet sewer pipe in place, 10-inch.

10 manholes.

1 flushtank manhole.

The village reserves the right to reject any or all bids, should it deem it to be for its interest to do so.

Office of the Village Recorder, Carlton, Minnesota.

Dated this 14th day of March, 1914.

A. H. LEE,

Village Recorder.

### Want Ads Special Notices

Good Rotary Neostyle, in first class condition, for sale cheap. One of the best machines made for getting out circular letters. Call or write W. F. Chapman, 912 Lumber Exchange, Minneapolis; N. W. Tel. Main 3902.

#### CONTRACT EQUIPMENT.

For sale in first-class condition, 70-foot Guy derrick with 16-foot Bull Wheel, 300 Scaffold Horses, 5 dozen Wheelbarrows, 3 Brick Elevator. Prices reasonable, material all good, used six months only. Call N. W. 'phone E. 3660 or Improvement Bulletin.

I would like to have a position as superintendent or carpenter foreman on heavy construction; steel or concrete construction; have had nine years' experience; can furnish good reference.

J. W. RUSSEL,  
4817 Poppleton av.,  
Omaha, Neb.

Wanted—Position Traveling and Selling any kind of Building Material. Know them all and can estimate quantities from plans correctly.

SALESMAN.  
3833 3d. av. S.  
Minneapolis, Minn.

(Continued on page 21.)

## FREE HELP WANTED ADVERTISEMENTS

#### POSITION WANTED.

Responsible position wanted by a practical cut-stone man, 25 years' experience, as superintendent, foreman or partner, can give A 1 reference.

HUGO REICH,  
Garson Quarry, Man., Canada.

#### POSITION WANTED.

Position wanted with Minneapolis or St. Paul general contractor. Employed as estimator at present. Graduate civil engineer. Can furnish good reference. G. E. Peterson, 4106 N. 18th st., Omaha, Neb.

#### WANTED.

A first-class building superintendent who understands the installation of mechanical equipment as well as general superintendence of brick and concrete hospital. State experience and salary expected. Hartford & Jacobson, architects, St. Paul.

#### POSITION WANTED—MASON.

Competent mason foreman wants to hear from some contractor looking for a man experienced in handling work, mason or concrete. Southern Minnesota preferred.

E. C. PETERSON,  
2721 Drake av.,  
Chicago, Ill.

#### AGENT WANTED.

A concrete mixer manufacturer, making one of the best mixers on the market, wants a good agent for the Northwest. For further information, call on W. F. Chapman, 912 Lumber Exchange, Minneapolis. Telephone, Main 3902.

..WANTED—Strictly Up-To-Date Furniture Specialties man as General Foreman. Must invest at least \$2,500, also machine men and cabinet-makers who must invest at least \$500, each. All investments absolutely secured. For further information Address, PACIFIC FURNITURE SPECIALTIES MFG. CO., INCORPORATED, 418-419 Lumber Exchange Building, Portland, Oregon.

#### BARN.

Iowa, Avoca—N. W. Derby will remodel the old billiard hall into modern garage.

Iowa, Fayette—Davis & Upton will soon erect a modern garage.

Iowa, Keokuk—Popel-Giller Co. will erect a modern garage; sandlime brick.

Iowa, Mt. Airy—Ben Burkett will erect a modern garage at Eagleville, (not a postoffice).

Iowa, Muscatine—Fire destroyed the barn of Charles Marell; loss \$2,500.

Iowa, Terrill—John Probst has contract to build new set of buildings for John Moore.

Iowa, Waverly—John Eckert will build a modern garage and repair shop.

Minn., Ft. Ripley—Fire destroyed the large to build a large barn.

Minn., Faribault—The Mutual Auto Co.

has arranged for erection of a large brick garage, 100x50, with addition of 50x60. J. P. O'Neill, contractor.

Minn., Mazeppa—W. D. Pencille will soon begin erection of a machine shed and garage on his South Troy farm.

Minn., Tower—Vermillion Boat and Outing Club have decided to build a garage.

Minn., Watertown—Louis Bloomquist plans barn of E. LaForce; loss about \$3,000.

Mont., Chester—A. O. Lee has leased a site and will erect an auto garage at once; and repair shop, 24x50.

Neb., Kearney—A large modern garage is being erected by William Senramm.

S. D., Canistota—Otto Gabld will prepare plans for veterinary hospital, 50x100, 2-story and basement, concrete block, for Dr. S. S. Clark.

Wis., New Franken—The Presbyterian congregation are building a barn on the church property.

Wis., Washburn—George Dargie will erect a modern garage.

#### PARKS.

Iowa, Muscatine—Muscatine Launch club plans beautifying levee in front of clubhouse.

Minn., Virginia—Olcott and South Side parks will be improved under supervision of Morrell & Nichols, landscape architects, Minneapolis.

N. D., Grace City—A cemetery association was organized for purpose of locating and buying a site for cemetery, etc.; W. C. Goddard, John Topp, F. A. Christianson, trustees.



## PROPOSAL ADVERTISING FOR BIDS

### PROPOSALS WANTED.

Creamery, Loretto, Minn.

The undersigned hereby gives notice that sealed proposals for the erection of a Creamery at Loretto, Minn., including all labor and material, will be received by the Loretto Progressive Creamery Assn., until the hour of 1 p. m., on the thirteenth day of April, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by H. E. Swanson, of Dassel, Minn., which may be seen at the office of the Improvement Bulletin on and after March 16, 1914, and may also be seen on application to State Bank of Loretto, Minn.

The Building to be complete by September the 15th, 1914.

A certified check for \$300, payable to the order of Loretto Progressive Creamery Assn., must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the sum of the amount of the bid for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed) HENRY SCHUMACHER,  
President.  
Loretto, Minn.

Place, Loretto, Minn.  
Date, March 11, 1914.

### NOTICE TO CONTRACTORS.

School, La Porte, Minn.

General Contract work, Plumbing, Heating and Ventilation of a Consolidated School District.

Office of the Board of Education, Consolidated School District No. 43, of La Porte, Hubbard County, Minnesota, March 7, 1914.

Proposals will be received at the above office by the Board of Education, at La Porte, Minnesota, up until the hour of 8:00 P. M., March 26, 1914, for the General Contract work and also for the Plumbing, Heating and Ventilating work of consolidated school building. The bids will be opened by the above Board of Education at the hour of 8:00 P. M., March 27, 1914, but the bids must be filed with Elliott B. Scott, Secretary of the Board, not later than March 26, 1914, at 8:00 P. M. Bids must be in accordance with plans and specifications as prepared by E. F. Broomhall, Architect, 710 Alworth Building, Duluth, Minn. Copies of plans must be obtained from the Architect by deposit of \$15.00, same to be returned on the date of letting, if a bona fide bid is filed and the plans and specifications returned. Copies of plans will be on file in the Builders' Exchange of St. Paul and Duluth, Minnesota, at the office of the Board and at the Architect's office.

Bids must be accompanied by a certified check in the sum of 3 per cent of the amount bid, made payable to Mr. C. H. Roman, Treasurer, the same will be forfeited to the School District if the bidder fails to enter into contract and furnish satisfactory surety bond within five days after being notified of the acceptance of his bid. Separate bids must be filed upon each the General Contract work and upon the Plumbing, Heating and Ventilation.

The right is reserved to accept any or reject any or all bids.

By order of the Board of Education.  
C. M. DALLY, President.  
ELLIOTT B. SCOTT, Secretary.

### NOTICE TO DITCH CONTRACTORS. Advertisement For Bids.

Office of the County Auditor, Itasca County, Minnesota.

Grand Rapids, Minn.,  
March 3, 1914.

Notice is hereby given, that sealed proposals or bids will be received at the office of the County Auditor of Itasca County, Minnesota, at the Village of Grand Rapids, until three o'clock P. M. on the 27th day of March, 1914, for the construction of Itasca County Judicial Ditch No. 2, located in Itasca County, Minnesota, at which time and place, or such time or times as said auditor may then adjourn said letting to, the contract for said construction will be let to the lowest responsible bidder.

Said construction involves:	
469,001.6 cubic yards excavation, estimated at 12c....	\$56,280.19
39 box culverts, estimated at \$40 each, and one bridge estimated at \$100.....	1,660.00
Clearing right of way, 200 acres at \$20.....	4,000.00
Leveling roadway, 34½ miles, estimated at \$100 per mile.	3,450.00
54 corrugated metal culverts, at least 15 inches in diameter and 30 feet long.....	1,890.00

Total estimated cost of construction work ..... \$67,280.19

This work is situated from nine to twelve miles from Green Rock, on the Great Northern Railway line, and from sixteen to twenty miles from the Village of Taconite, both in Itasca County, Minnesota.

Proposals or bids are invited for said work as one job, and also for any one or more of the sections thereof, or any one or more of the construction jobs. Each proposal or bid must be accompanied by a certified check, payable to M. A. Spang, County Auditor, for not less than ten per cent of the amount thereof.

The right to reject any and all bids or proposals is reserved.

For particulars address: Pierre X. Weimerskirch, Engineer in charge, 380 Shubert Building, St. Paul, Minn., or M. A. Spang, County Auditor of Itasca County, Grand Rapids, Minnesota.

### NOTICE TO CONTRACTORS.

School, Pequot, Minn.

General Contract work, Plumbing, Heating and Ventilation of a Six-Room, Brick School Building.

Office of the Board of Education, Consolidated School District No. 41 of Pequot, Crow Wing County, Minnesota, March 7, 1914.

Proposals will be received at the above office by the Board of Education, at Pequot, Minnesota, up until the hour of 8:00 P. M., March 27, 1914, for the General Contract work and also for the Plumbing, Heating and Ventilating work of a six-room, brick school building. The bids will be opened by the above Board of Education at the hour of 8:00 P. M., March 28, 1914, but the bids must be filed with J. P. Bakken, Secretary of the Board, not later than March 27, 1914, at 8:00 P. M. Bids must be in accordance with plans and specifications prepared by E. F. Broomhall, Architect, 710 Alworth Building, Duluth, Minnesota. Copies of plans may be obtained from the Architect by deposit of \$15.00, same to be returned on the date of letting, if a bona fide bid is filed and the plans and specifica-

tions returned. Copies of plans will be on file in the Builders' Exchange of St. Paul and Duluth, Minnesota, at the office of the Board and at the Architect's office.

Bids must be accompanied by a certified check in the sum of 3 per cent of the amount bid, made payable to Mr. Cloud, Treasurer, the same will be forfeited to the School District if the bidder fails to enter into contract and furnish satisfactory surety bond within five days after being notified of the acceptance of his bid.

Separate bids must be filed upon each the General Contract work and upon the Plumbing, Heating and Ventilation.

The right is reserved to accept any or reject any or all bids.

By order of the Board of Education.

O. M. OLSEN, President.  
J. P. BAKKEN, Secretary.

### NOTICE TO CONTRACTORS.

Sewer System, Menomonie, Wis.

Notice is hereby given that sealed proposals will be received by the council acting as a Board of Public Works, of Menomonie, Wisconsin, until two o'clock, P. M., on April 15, 1914, for the construction of combined sewers for said city, in accordance with plans and specifications therefore, on file in the office of the council acting as a Board of Public Works.

Each bid must be accompanied by a contract with sureties in the amount of the contract as prescribed by said city (copies of which will be furnished by the Council acting as the Board of Public Works) completed with the exception of signatures on the part of the City.

Plans and specifications may be seen and schedules of quantities and blank forms of proposals obtained at the office of the said Board, Menomonie, Wisconsin.

The right is reserved to reject any and all bids.

Dated at Menomonie, Wis., March 18, 1914.

J. R. MATHEWS,  
RAY R. HUNT,  
F. W. ROWE,

Council acting as Board of Public Works.

### PROPOSALS WANTED.

Highway, Plankinton, S. D.

The undersigned hereby gives notice that sealed proposals for the erection of thirteen and three-quarters miles of highway to be built in Aurora County, S. D., will be received by the County Auditor of Aurora County in Plankinton, until the hour of 2:00 P. M., on the 8th day of April, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by the Dakota Engineering Co., of Mitchell, S. D., which may be seen at the office of the County Auditor in Plankinton.

A certified check for \$100.00, payable to the order of the County Treasurer, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed) M. H. GRIFFIN,  
Chairman.

ERLAND JOHNSON,  
County Auditor.

Plankinton, S. D.  
March 5, 1914.

(Continued on page 23.)



# AMERICAN BRIDGE COMPANY OF NEW YORK

**B**UILDERS of steel structures of all kinds, including mining and manufacturing buildings, power plants, towers and tanks, bridges and viaducts, turntables for locomotives and automobiles, roofs, trusses, girders and steel frames for business buildings.

Stock carried at Minneapolis includes a large supply of structural steel, consisting of beams, channels, angles and plates. Orders requiring quick delivery can be filled promptly.

Estimates will be gladly furnished and all inquiries will receive careful attention.

Office and Works 7th Ave. and 2nd St. S. E., Minneapolis, Minn. Duluth Office  
Wolvin Bldg.

## The Youngstown Iron & Steel Co. YOUNGSTOWN, OHIO

MANUFACTURERS OF  
Expanded Metal for Concrete Reinforcement  
Expanded Metal Lath for Plastering Purposes  
Metal Studding, Furring Strips, Etc.  
for Use with Expanded Metal Lath.

"Mahoning" Brand Expanded Metal  
In Gauges No. 7 to 12 Inclusive.

"Youngstown" Brand Expanded Metal  
In Gauges Nos. 7 to 20 Inclusive.

SEND FOR CATALOGUE

## Landers-Morrison-Christenson Co.

Agents for Minnesota and North and South Dakota  
Lumber Exchange Building, Minneapolis, Minn.

## The Fort Garry Hotel WINNPEG CANADA



3,000 Tons of Steel Furnished and Erected by

**Minneapolis Steel & Machinery Co.** Minneapolis  
Minnesota

## Davenport Machine & Foundry Co.

1618-44 West Fourth St.

Davenport, Iowa

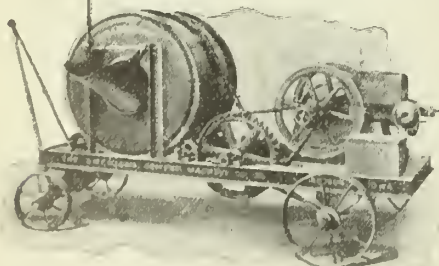
## STRUCTURAL

Steel and Steel and Cast Columns, Steel Girders,

Cast Iron Roof Trusses, Stairways and Fire Escapes.

Beams, Channels and Angles  
:: CARRIED IN STOCK ::

## IT'S A "BOSS" MIXER!



Handy to get around with. Mixes 60 yds. of concrete a day.

Five foot capacity BOSS mixer on steel truck with 3 h. p. gasoline engine

\$198.00

BOSS mixer, fitted with side loader and hoisting drum, \$288.00  
I also sell Austin cube mixers, Coltrin mixers, gasoline engines & cement block machines

**NELS ERICKSON** 405 BOSTON BLOCK  
Minneapolis, - Minn.

Sand - Lime  
Common Brick  
Face Brick

Partition  
TILE  
Packing

**BELT LINE BRICK COMPANY** 512 ANDRUS BUILDING  
MINNEAPOLIS, - MINN.

Ricketson's  
MINERAL COLORS

Made Famous

the Slogan:

For Mortar, Brick,  
Cement, Stone, Etc..  
Red Brown, Buff,  
Purple and Black.



Ricketson's Mineral Paint Works, Milwaukee, Wis



## PROPOSAL ADVERTISING FOR BIDS

### NOTICE TO BIDDERS.

State Rural Highway, St. Louis County, Minnesota.

Notice is hereby given that sealed proposals will be received at the office of the County Auditor of St. Louis County, Minnesota, until 2 o'clock in the afternoon of Saturday, April 11, 1914, for the construction of State Rural Highway Number Four (4), established by an order of the County Board of the County of St. Louis, Minnesota, made and filed on the 27th day of September, 1913. The contract will be let to the lowest responsible bidder or bidders.

That the approximate amount of the work of construction of said State Rural Highway Number Four (4), is as follows: The construction of approximately thirty-two (32) miles of highway, of which about one-half ( $\frac{1}{2}$ ) is through swampy land, and one-half ( $\frac{1}{2}$ ) on upland. That the construction of said highway involves approximately thirty-one and eight-tenths (31.8) miles of clearing and grubbing of right-of-way; ninety-four thousand (94,000) cubic yards of ditching; thirty-eight thousand (38,000) cubic yards of turnpiking; eighteen thousand (18,000) cubic yards of earth to be hauled onto and placed on said road where the same runs through swamp; thirteen thousand five hundred (13,500) cubic yards of excavation, cut and fill work; thirty-seven thousand (37,000) cubic yards of graveling on said road, and seventy-four (74) corrugated galvanized metal culverts, varying from fifteen (15) inches to forty-eight (48) inches in diameter. That the estimated cost of said work, exclusive of engineering expenses, is approximately One Hundred Three Thousand Dollars (\$103,000.00). That the said work is located between the intersection of the Culver Road with the Miller Trunk Road, as its eastern terminus, and the westerly limits of St. Louis County as its western terminus. That contracts for building the bridges on said road have already been let.

Proposals will be received on one or more sections or schedules of said work, and on one or more of such construction jobs, or for the entire work as one job. Each proposal must be accompanied by certified check, made payable to the County Auditor of St. Louis County, for not less than ten per cent (10%) of the amount of any bid, as a guarantee that the bidder will, if successful, promptly execute said contract and furnish a satisfactory bond for the faithful performance of the work as required by the drawings and specifications for said work. Bidders submitting bids on different sections or portions of said work will not be required to furnish separate check with each proposal, but one check for ten per cent (10%) of the aggregate amount of bids submitted will be sufficient.

Only experienced and responsible bidders will be considered in awarding contracts, and evidence of such experience and responsibility will be required. The County Auditor reserves the right to reject any and all bids.

Bids will be received for the construction of said road and the performance of said work on a yardage basis or by the station; bids for clearing and grubbing will be received on a lump sum per section basis only.

Proposals must be marked "Proposal for Constructing State Rural Highway

Number Four in St. Louis County, Minnesota," and addressed to "O. Halden, County Auditor, Duluth, Minn."

All proposals must be based upon the specifications for said work which are a part of the Engineer's Report in said proceedings and on file in the office of the County Auditor, at the City of Duluth.

For further particulars, address the undersigned, County Auditor, or E. K. Coe, Engineer in Charge, Court House, Duluth, Minnesota.

Dated March 13, 1914.

O. HALDEN, County Auditor.

By J. O. WALKER, Deputy.

(Seal, County Auditor of St. Louis County, Minnesota.)

### BIDS FOR CENTRIFUGAL MOTOR-DRIVEN FIRE PUMPS.

St. Cloud, Minn.

Sealed proposals will be received at the office of the city clerk of the city of St. Cloud, Minnesota, up to and including Tuesday, March 31st, A. D. 1914, at 3 o'clock p. m., for furnishing and installing one 1,500-gallon centrifugal motor-driven fire pump, which pump shall conform to the "Rules and Requirements of the National Board of Fire Underwriters for the Construction and Installation of a Centrifugal Motor-Driven Fire Pump as recommended by the National Fire Protection Association," latest edition, which is now on file at the office of the city clerk and reference to which is made for greater particularity.

Said pump shall have a standard pressure of 110 pounds and shall be so designed as to give 135 pounds pressure closed and 90 pounds pressure with delivery of 10 per cent in excess of the rated capacity, with the alternative of a relief valve if the pump pressure exceeds 135 pounds closed.

Said pump shall be tested in the shop and test reported to the commission of said city before shipping.

Each bid shall be accompanied by a certified check for 10 per cent of the amount of the bid.

The city of St. Cloud hereby reserves the right to reject any and all bids.

Witness my hand and seal this 7th day of March, A. D. 1914.

GEO. G. MAGNUSON,

(Seal) City Clerk,  
March 10, 1914. St. Cloud, Minn.

### STATEMENT OF OWNERSHIP, ETC.

Statement of the ownership, management, circulation, etc., of the Improvement Bulletin, published weekly at Minneapolis, Minn., required by the act of August 24, 1912.

(Note—This statement is to be made in duplicate, both copies to be delivered by the publisher to the postmaster, who will send one copy to the third assistant postmaster general, division of classification, Washington, D. C., and retain the other in the files of the post-office.)

Editor, O. L. Colburn; postoffice address, Minneapolis, Minn. Managing editor, same. Business manager, W. F. Chapman, Minneapolis, Minn. Publisher, Chapin Publishing Co., Minneapolis, Minn. Owners, (if a corporation, give names and addresses of stockholders holding one per cent or more of total amount of stock), Mrs. V. E. Chapin, Minneapolis, Minn.; Henry Deutsch, Minneapolis, Minn.; Rollin C. Chapin, Minneapolis, Minn.

Known bondholders, mortgagees, and other security holders, holding one per

cent or more of total amount of bonds, mortgages or other securities. None.

Average number of copies of each issue of this publication sold or distributed through the mails or otherwise, to paid subscribers during the six months preceding the date of this statement. (This information is required from daily newspapers only.)

(Signed) O. L. COLBURN, Editor.

Sworn to and subscribed before me this 9th day of March, 1914. W. F. Chapman, notary public, Hennepin county. (My commission expires October 14, 1918.)

### ROAD MACHINERY PROPOSALS. Le Sueur, Minn.

Office of the County Auditor,  
Le Sueur County, Le Sueur Center, Minn.

Notice is hereby given that the Board of County Commissioners of the County of Le Sueur, Minn., will meet in special session on Monday, the sixth day of April, 1914, at 2 o'clock P. M., of said day, for the purpose of receiving and considering sealed proposals for sale to said County of Le Sueur of the following tools and road machinery:

- Sixteen road drags,
- Twenty four-wheel scrapers, No. 2½.
- Sixteen drag scrapers, No. 2.
- Four road plows.

The said Board reserves the right to reject any and all bids.

J. H. KAISUSATT,  
County Auditor,  
Le Sueur County, Minn.

### BIDS FOR PAVING AND CURBING. Cresco, Iowa.

The Incorporated City of Cresco, Iowa, will receive sealed bids until three o'clock P. M. on the 4th day of April, 1914, at the City Clerk's office for about 24,000 square yards of cement paving and 15,500 lineal feet of curbing, all in accordance with plans and specifications prepared by W. L. Richards, City Engineer, and now on file in the City Clerk's office. All bids must be accompanied with a certified check drawn on some bank in Cresco, Iowa, and made payable to the City Treasurer of Cresco, without recourse in the sum of \$1,000.00 for paving and \$200.00 for curbing.

The City reserves the right to be the judge of the contractor's facilities and ability to perform the work in the best manner, to reject any or all bids, to waive defects and to accept any bid. All bids must be in sealed envelopes, marked on the outside "Paving Bids," or "Curbing Bids," and addressed to A. W. Gillett, City Clerk, Cresco, Iowa.

A. W. Gillett,  
City Clerk.  
E. L. DAVENPORT,  
Mayor.

### PAVING. West Union, Iowa.

Sealed proposals will be received at the office of the City Clerk of West Union, Iowa, until 1 o'clock P. M., April 2, 1914, for approximately 30,000 square yards paving, bids on either concrete, asphaltic concrete, bitulithic, sarcolithic, brick and creosote block will be received. Certified check for \$1,000.00 to accompany bid. Work to be finished by August 20, 1914. Plans and specifications on file with the City Clerk and at the office of M. Tschirgi & Sons, Engineers, 314 Masonic Temple, Cedar Rapids, Iowa.

(Signed) R. P. CAMP,  
City Clerk.





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## Street and Road Work

Notes arranged alphabetically by states.

**Iowa, Atlantic**—Hearing March 31 on proposed grading, curbing, guttering and paving of certain streets. T. E. Nichols, city clerk; J. H. Maynard is city engineer.

**Iowa, Bettendorf**—Bidders for paving were as follows: The Kooneman Co. 50c per cubic yard for excavating, 1.03 per square yard for concrete paving and 33c per foot for curbing; The McCarthy Improvement Co., 50c per cubic yard for excavating, 1.80 per square foot for pavement, and 35c per foot for curbing.

**Iowa, Council Bluffs**—Hearing April 13 on concrete paving 20 feet wide and 6 inches deep, etc., 2,950 feet long, with strip of crushed stone on each side underlaid with 8-inch tile drain, emptying into a culvert of vitrified tile 24 inches in diameter and 66 feet long on South av.; also, at same time, on concrete paving on Broadway, 24 feet wide, 6 inches deep with crushed stone 3 feet wide and 1 foot deep on each side. Chas. J. Duff, city clerk.

**Iowa, Davenport**—Board of public works instructed to purchase from the Studebaker Co. two pneumatic flushers to cost \$900 each. Address city clerk.

**Iowa, Des Moines**—Hearing April 1 on paving on various avenues. Horace Susong, city clerk.

**Iowa, Des Moines**—Plans are being prepared by F. Carrs, city engineer, for 23,676 square yards concrete paving in Valley district and 18,267 square yards in Hickman av. Horace Susong, city clerk.

**Iowa, Eagle Grove**—Council on March 2 ordered forty blocks of paving; material to be concrete or asphalt. W. R. Blake, mayor.

**Iowa, Fort Dodge**—Bids received by J. L. Hanrahan, auditor of Webster county, for corrugated iron culverts for the county for the year 1914.

**Iowa, Ida Grove**—All bids for corrugated culverts for the county were rejected and also bids for tractors. Bids for road drags left open, and later there will be a contest open to all. Richard Varner, auditor of Ida county.

**Iowa, Iowa City**—Hearing Mar. 31 on two or three miles of bitulithic and several blocks of brick paving. Address city clerk. It is reported bids will be called for at once.

**Iowa, Vinton**—Council has ordered paving on several streets. Percy P. Smith, engineer.

**Minn., Albert Lea**—Frank Thompson is chairman of the committee appointed to purchase a road grading outfit for the county. C. E. Brainerd, auditor of Freeborn county.

**Minn., Austin**—The Austin Gas Co. has petitioned council for permission to lay 6,850 feet of new mains.

**Minn., Duluth**—John Wilson, city engineer, estimates cost of the Vermillion road paving with concrete at \$61,576.

**Minn., Hibbing**—The levy for road work in the township of Stuntz the coming year will raise \$196,000. J. A. Pryor, township engineer, says plans are being made for the construction of 27.85 miles of new road, surfacing with gravel of about 8.50 miles of road and 105 miles of road to maintain.

**Minn., Mankato**—Hearing Mar. 30 on the proposed improvement of Main st., to cost nearly \$5,000. F. W. Bates, city clerk.

**Minn., Mountain Iron**—The Lawrence-McCann Co. is the low bidder for a \$30,000 paving contract which will be let within a few days.

**Mont., Glasgow**—Hearing April 8 on sidewalk, curb and crossings estimated to cost \$21,398. E. E. Crawford, city clerk.

**Mont., Lewistown**—Hearing March 30 on paving 1st av. and Janeaux sts., about 18 blocks; address city clerk.

**Mont., White Sulphur Springs**—Hearing will be had on sidewalks and paving, the walks alone costing about \$6,000; address city clerk.

**Wis., Portage**—Hearing March 25 on paving a loop of streets connecting the business section of Portage with the Milwaukee depot, the estimated cost if concrete is used being \$22,172. W. B. Washburn, city clerk.

**Wis., Racine**—Hearing March 28 on the improvement of 15th st. and the Rapids road.

**Wis., Superior**—City commission has ordered paving of Cumming av. to a width of 30 feet; city engineer will prepare specifications.

### BIDS WANTED.

**Alta., Edmonton**—Bids received by city commissioners, until noon, March 31, for approximately 275,000 square yards of street and lane paving, with curb and gutter; plans for a deposit of \$10; check for \$2,000, with assent of a surety company.

**Alta., Banff**—Bids received by Lyndwode Pereira, secretary of the department of the interior, Ottawa, Ont., until noon, April 6, thirteen thousand five hundred (13,500) lineal feet of twenty inch diameter lapwelded

steel pipe, and twelve thousand (12,000) lineal feet of six inch diameter cast iron pipe for the water system at Banff.

**Iowa, Algona**—Bids received by S. W. Crowell, city clerk, until 7 p. m., Mar. 31, for about 39,000 square yards of paving on various streets, material to be of one or more of ten different kinds. Check for \$500, and bond with contract for \$24,000. Also, at the same time, for about 28,537 lineal feet of curbing. Check for \$200, and bond with contract for \$4,000.

**Iowa, Ames**—Bids received by A. B. Maxwell, city clerk, until 7:30 p. m., April 6, for construction, reconstruction and repair of sidewalks and crossings for one year. Check for \$25.

**Iowa, Cresco**—Bids received by A. W. Gillet, city clerk, until 3 p. m., April 4, for about 24,000 square yards cement paving and 15,500 lineal feet curbing. Check for \$1,000 on paving and \$200 on curbing. Officially advertised in this issue of the Improvement Bulletin.

**Iowa, Le Mars**—Bids received by Edwin S. Townsend, city clerk, until 8 p. m., April 15, for paving on Main st.

**Iowa, Missouri Valley**—Bids received by S. R. Williams, city clerk, until March 24, for 24,000 square yards brick, vertical fibre brick, sheet asphalt or asphaltic concrete paving. Bruce & Staudeven, engineers, Bee building, Omaha, Neb.

**Iowa, Nevada**—Bids received by C. A. Bateman, auditor Story county, until 10 a. m., March 27, for grading on four sections of county roads system, in all 12,000 cubic yards excavation. Check for \$100.

**Iowa, Traer**—Bids received by city council until March 24, for 13,570 square yards of brick asphalt or concrete pavement, 2,500 yards extra grading and 8,380 feet curb. Ralph B. Slippy, consulting engineer, Waterloo. H. L. Daniel, town engineer, Traer.

**Iowa, Waukon**—Bids received by J. D. Cowan, city clerk, until 7 p. m., March 24, for 21,000 square yards vitrified brick pavement on concrete foundation. Plans on receipt of \$1.50, not returnable, Aetna Engineering Bureau, 700-17 North La Salle st., Chicago. Check for \$4,000.

**Iowa, West Union**—Bids received by R. P. Camp, city clerk, until 1 p. m., April 2, for 30,000 square yards paving, either concrete, asphaltic concrete, bitulithic, sarcolithic, brick or creosote. Check for \$1,000. Officially advertised in this issue of the Improvement Bulletin.

**Minn., Bemidji**—Bids received by J. L. George, auditor of Beltrami county, until 2 p. m., April 7, for part of state rural highway No. 12, as follows: Division A, leveling and grading; divisions C, E and F, clearing, grubbing, grading, ditching, installing culverts and graveling; divisions B, D and G, graveling only; separate bids for 113 corrugated metal culverts; check for 10 per cent; Roy K. Blier, engineer.

**Minn., Blue Earth**—Bids received by Jesse L. Herring, county auditor, until 1 p. m., March 30, for state road work, grading, turpiking and culverts, complete. Check for 5 per cent. Officially advertised in this issue of the Improvement Bulletin.

**Minn., Brainerd**—Bids received by J. F. Smart, auditor of Crow Wing county, until 2 p. m., April 7, for one 30-horsepower tractor and six dump wagons holding 3½ yards earth each.

**Minn., Duluth**—Bids received by O. Halden, auditor of St. Louis county, until 2 p. m., April 11, for state rural highway No. 4, the construction of approximately 32 miles of highway, of which about one-half is through swampy land, and one-half on upland. That the construction of said highway involves approximately 31.8 miles of clearing and grubbing of right-of-way, 94,000 cubic yards of ditching, 38,000 cubic yards of turpiking, 18,000 cubic yards of earth to be hauled onto and placed on said road where the same runs through swamp; 13,500 cubic yards of excavation, cut and fill work, 37,000 cubic yards of graveling on said road, 74 corrugated galvanized metal culverts, varying from 15 inches to 48 inches in diameter. That the estimated cost of said work, exclusive of engineering expenses, is approximately \$103,000. E. K. Coe, engineer in charge, court house, Duluth, Minn. Check for 10 per cent.

**Minn., Fairmont**—Bids received by H. C. Nolte, auditor of Martin county, until March 31, for 4 miles of road construction in three jobs.

**Minn., Grand Rapids**—Bids received by M. A. Spang, county auditor, until 10 a. m., March 25, for county road No. 90 and also for a highway, known as the Deer River-Northoline trunk line road. Check for 5 per cent.

**Minn., Le Sueur**—Bids received by J. H. Kaissatt, auditor, Le Sueur County, until 2 p. m., April 6, for sixteen road drags, twenty 4-wheel scrapers, No. 1½, sixteen drag scrapers, No. 2, and four road plows. Advertised officially in this issue of the Improvement Bulletin.

**Minn., Mankato**—Bids received by F. W. Bates, city clerk, until 9:30 p. m., March 23, for paving on various streets with either concrete, asphalt, macadam or tar macadam; check for 10 per cent.

**Minn., New Prague**—County auditor has been instructed to advertise for bids for state road No. 8 in Le Sueur county; J. H. Kaisersatt, county auditor.

**Mont., Billings**—Date for receiving bids on 18,500 yards paving, any one of half a dozen materials, has been extended from March 17 to the 24th; L. E. Torrence, city clerk.

**Mont., Billings**—Bids received by E. E. Williams, clerk of the board of county commissioners, until 2 p. m., Mar. 21, for grading what is known as the Lloyd Lipp road; Arthur Boyer, county surveyor, for particulars; check for 5 per cent.

**Mont., Great Falls**—Bids received by W. H. Harrison, city clerk, until 8 p. m., Mar. 23, for grading for standard boulevard on 9th st.; check for 10 per cent.

**N. D., Carrington**—Bids received by C. W. Burnham, auditor of Foster county, until 10 a. m., April 6, for road grading in various townships.

**N. D., Casselton**—Bids received by C. E. Lason, city auditor, until 6 p. m., April 6, for sidewalks in the city of Casselton; check for \$25 and bond with contract for \$250.

**N. D., Glenburn**—Bids received by Peter Carlson, auditor of Renville county, until 2 p. m., April 8, for one elevating road grader; check for 5 per cent.

**N. D., Grafton**—Bids received by J. H. Johnson, city auditor, until 6 p. m., April 4, for sidewalks and crossings for the ensuing year from May 1. Check for \$100.

**N. D., Williston**—Bids received by G. G. Harvey, city auditor, until 8 p. m., April 7, for cement sidewalks and crossings during the year. Check for \$50.

**S. D., Chamberlain**—Bids received by John F. Maack, auditor for Brule county, until 9 a. m., April 7, for about twenty miles of grading highways.

**Wash., Humptulips**—Bids will be received until March 30 by the state highway board at Olympia (Wm. B. Roy, secretary), for improving about 7.8 miles of the Olympia highway between Humptulips and Quinault, Chehalis county.

**Wis., Racine**—Bids received by the city clerk until April 11 for paving Barker st. with brick.

**Wis., Richland Center**—Bids received by Reuben Sutton, city clerk, until 4 p. m., April 11, for a reinforced concrete pavement four blocks long, the work comprising 6,056 square yards of reinforced concrete pavement, 1,663 lineal feet of combination curb and gutters, 260 feet of concrete waterways. Check for 5 per cent.

**Wis., Watertown**—Bids received by F. S. Weber, city clerk, about May 1, for eight blocks of paving, probably cement in N. 2d st.

### CONTRACTS AWARDED.

**Cal., Los Angeles**—Contract has been let to James Kennedy, Fargo, N. D., for a \$700,000 sewer and waterworks job here; he also has a contract for paving at Lake Geneva, Wis., for \$75,000.

**Iowa, Cedar Falls**—The John Wheeler Construction Co., Geneva, Ill., received contract for paving new B av. bridge, at \$94,572.

**Iowa, Grinnell**—Contract with the Hawkeye Lumber Co. for construction supplies for the year. Bids rejected for cement walks, bidders being R. G. Coutts and A. H. Gilbert, each at 11½ cents per square foot. New specifications will be drawn.

**Iowa, Nevada**—Contract has been made with P. E. Shugart, city, for paving with reinforced concrete at \$1.51 per square yard, a total of \$33,785. The bid of Elzy & Carlson, Marshalltown, was the same, but the outside firm gave way to the local bidder. Other bidders on reinforced concrete were: L. B. Childs, Nevada, \$2.10; Western Construction Co., Iowa City, \$1.60; Faris-Abrahamson Construction Co., Des Moines, \$1.62; Gate City Construction Co., Omaha, \$1.87; Des Moines Asphalt Paving Co., Des Moines, \$1.78; Ford Paving Co., Cedar Rapids, \$1.71½.

**Minn., Crookston**—Contract to C. C. Sloan for paving various streets with westrumite.

**Minn., Mankato**—Contract with Thomas Brogan, St. Peter, for grading, graveling and boulevarding on 4th st.; and also on Madison av., at \$4,957; other bidders were John Page and John McCall, each of whom bid \$5,700.

**Minn., St. Paul**—Contracts for grading have been let as follows: Grading Hendon st. from Cleveland to Como avs., W. H. Malone, \$6,435; grading Roy st. from Shields to St. Anthony av., W. H. Malone, \$365; grading Doswell av. from Raymond to Cleveland avs., W. H. Malone, \$895.

**Minn., Winona**—Contract with Hanlon & Oakes, Sioux City, Iowa, on the La Moille road and over Stockton hill, at \$92,000, and a force will be put to work inside of two weeks; this is the contract formerly held by Henry Prinz, Minneapolis.

**Neb., Kearney**—Contract to John A. Beebe,



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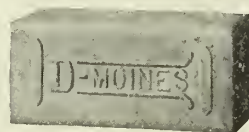
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## RESIDENCES.

Iowa, Fort Dodge—Miss L. S. Pickett has accepted plans for erection of five bungalows to be erected in this city; estimated cost of each, \$3,000.

Iowa, Iowa City—A modern residence will be erected on the Friend farm.

Iowa, Mt. Ayr—Trunk &amp; Gordon, architects, St. Joseph, Mo., are preparing plans for erection of new houses for H. H. Wilson and J. O. Fry, in Sheldon Heights.

Iowa, Traer—A \$3,000 modern residence will be erected on the Friend farm.

Iowa, Titonka—Ben Kleist will erect a modern residence on his farm.

Minn., Albert Lea—L. G. Greene will erect a modern modern residence.

Minn., Austin—Dave Aultfather is erecting a modern residence; electric lights.

Minn., Garvin—Godfrey Peterson will build a modern dwelling.

Minn., Breckenridge—Louis Gewalt of the Breckenridge Development Co., will erect a number of cottages soon.

Minn., Heron Lake—Dr. Moe has commenced modern residence.

Minn., Hewitt—Mrs. Sarah Smith will erect a modern residence. Mr. Keacher, contractor.

Minn., Mankato—Albert Schippel, archi-

tect, Mankato, has plans ready for erection of a \$4,000 house for Joseph Turek, of Morristown.

Minn., Minneapolis—The home of Wm. Spittal was damaged about \$1,000 by fire.

Minn., Moorhead—Hugo Bacheneimer has purchased lots 4, 5 and 6, block 3, and will erect four modern residences.

Minn., Princeton—The modern residence of J. M. Johnson burned; loss, about \$25,000.

Minn., Rochester—Hoffman &amp; Mosse, architects, Rochester, are preparing plans for residences for Joseph Mahr and A. M. Belena of Owatonna; alterations on residence for Byron Mabon.

Minn., Stewart—Fred J. Kloempken will build a modern residence.

Minn., Worthington—Alex Sterling will soon begin erection of a modern residence.

Mont., Billings—City Treasurer Robert Brubeck has commenced erection of a 6-room bungalow.

Mont., Bozeman—W. C. Smith is building an 8-room bungalow, modern.

Mont., Bozeman—Oliver Russell and his father are building a modern residence.

Mont., Cascade—Plans have been drawn for erection of a parsonage for the Catholic Association. Rev. Father Tynhan, pastor.

Mont., Butte—Butte will probably see construction of at least 2,500 homes in this district during 1914.

Mont., Harlowton—Joseph Muir has let contract for erection of a modern residence.

Mont., Fairview—I. S. Honstain will begin erection of ten new modern cottages.

Mont., Phillipsburg—Thomas Collins of the Phillipsburg Cash Grocery Co., will erect a modern 6-room bungalow.

a 5-room house built. K. P. Konklin, contractor.

Neb., Kearney—A. C. Graham is preparing to erect a \$10,000 residence; 2-story and basement.

N. D., Ambrose—Geo. Leland will erect a modern dwelling; cost, about \$2,000.

N. D., Grand Forks—Fire destroyed the residence of Arthur Keithley; loss, about \$5,000.

N. D., Grand Forks—A \$60,000, 12-family apartment house will be erected.

N. D., Munich—M. J. Wirth will erect a modern residence.

Sask., Moose Jaw—Permit was issued by Building Inspector E. Goodman-Jones for erection of five brick houses on Athabasca st., each one to contain drawing room, dining room, kitchen, bedrooms, 2½-story, modern throughout; cost \$20,000.

S. D., Brookings—Congregation of Methodist Episcopal church will erect a modern parsonage.

S. D., Edgmont—Wm. Bartlett has purchased the Edgmontia building and will remodel same into seven 6-room flats; electric lights, water and bath rooms; modern throughout.



Omaha, for paving districts 2 and 3 with asphalt at \$1.77 per square yard. Other bids were: I. E. Doty, David City, Neb., brick, \$1.98 per square yard; Dan Quinlan, city, brick, \$1.98; Berger Construction Co., Hastings, Neb., brick, \$1.98; John A. Beebe, Omaha, brick, \$1.92; Samuel Friedman, Omaha, brick, \$2.07, cement, \$1.50, asphalt \$1.74. T. N. Hartzell, city clerk.

**Neb., Lincoln**—Contract has been made with the L. T. Smith Co., Milwaukee, for a portable hot mixer for road work at \$1,339, f. o. b. Lincoln.

**N. D., Williston**—Contract with J. S. Pen-son for grading and graveling the road past the fair grounds.

**N. D., Yankton**—Contract with Russell Grader Manufacturing Co., Minneapolis, for all metal pipe culverts that may be needed by the county during the year; Julius Engel, county auditor.

**Wash., Olympia**—Contracts totaling \$268,000 have been let by the state highway commission for five different stretches of permanent highway, as follows: Inland Empire highway, Spokane to Spangle, 14 miles, \$65,931, Carlson Chindahl of Spokane; Spangle to Rosalia, 12 miles, \$66,541, Inland Empire, Hassam Paving Co., Spokane; Walla Walla westerly, 8 miles, \$19,785, Wilson Bailey Construction Co., Walla Walla. McClellan Pass highway; Natches to National park, 6 miles, \$66,631, N. Normile, Seattle; Enumclaw to National park, 11.3 miles, \$49,326, W. F. Manney, Seattle.

**Wis., Milwaukee**—Contracts for asphalt paving have been let to the Badger Construction Co. and the White Construction Co., aggregating \$69,296. Other contracts for street improvements are three-fourths of a mile on the Hawley road by the Meyer Construction Co.; one and one-half miles on the Cedarburg road by the Dean Construction Co.; seven miles on Green Bay roads two and three; two and one-half miles on the Loomis road and one and three-quarters on the Kilbourn road by Gumz, Gutknecht & Wussow.

**Wis., Racine**—Contract to the Western Improvement Co., city, for paving on Washington av.

**Wis., Sturgeon Bay**—Contracts for highway work have been made as follows: The Egg Harbor job was awarded to August Moeller; the Gibraltar contract to Thomas Carmody and that within the city limits to L. H. Nebel.

## Drainage and Irrigation

*Notes arranged alphabetically by states*

**Iowa, Bancroft**—Engineer reported favorably on district 102, Kossuth county, hearing April 7, at Algona.

**Iowa, Boone**—A. H. Chambers, engineer, of Boone county, is preparing plans for the following drainage work, bids for which will be advertised by G. H. Betty, county auditor: Drainage No. 113, including 2,000 lineal feet 26-inch; 3,500 lineal feet 24-inch, 1,700 lineal feet 22-inch, 920 lineal feet 20-inch, 1,900 lineal feet 12-inch, 1,200 lineal feet 10-inch, 4,667 lineal feet 8-inch, 1,322 lineal feet 6-inch, drain tile; estimated cost, \$12,574.20. No. 110, including 2,650 lineal feet 26-inch, 2,750 lineal feet 24-inch, 450 lineal feet 22-inch, 3,510 lineal feet 20-inch, 600 lineal feet 15-inch, 2,710 lineal feet 14-inch, 3,006 lineal feet 12-inch, 1,700 lineal feet 10-inch, 1,400 lineal feet 8-inch, 8,393 lineal feet 6-inch, drain tile; estimated cost, \$15,812.59. No. 107, including 2,450 lineal feet 36-inch, 1,050 lineal feet 26-inch, 1,370 lineal feet 24-inch, 1,000 lineal feet 22-inch, 730 lineal feet 20-inch, 500 lineal feet 18-inch, 1,800 lineal feet 16-inch, 2,100 lineal feet 15-inch, 7,790 lineal feet 14-inch, 3,450 lineal feet 12-inch, 2,996 lineal feet 10-inch, 4,774 lineal feet 8-inch, 2,689 lineal feet 6-inch, drain tile; estimated cost, \$20,125.35. No. 106, including 7,450 lineal feet 32-inch, 3,450 lineal feet 26-inch, 500 lineal feet 24-inch, 1,800 lineal feet 22-inch, 800 lineal feet 18-inch, 1,300 lineal feet 16-inch, 3,300 lineal feet 15-inch, 4,900 lineal feet 14-inch, 3,100 lineal feet 12-inch, 3,084 lineal feet 10-inch, 5,255 lineal feet 8-inch, 2,727 lineal feet 6-inch drain tile.

**Iowa, Mason City**—Engineer reported favorably on joint ditch district and hearing April 7, Mason City.

**Minn., Buffalo**—Hearing 1 p. m., March 25, on county ditch petitioned for by Matt Weber and others; John A. Berg, county auditor.

**Minn., Montevideo**—Hearing, 2 p. m., Mar. 23, on petition of Wm. Strom and others, for county ditch.

**Mont., Boxelder**—Proposed, Merras River irrigation project has been taken up by Boxelder Basin Development association; address Wm. Cowan.

**Wis., Sheboygan**—Survey has been made for drainage system in Saukville town, Ozaukee county; swamp land.

**Wyo., Cheyenne**—State board of land com-

missioners approved contract on Fremont Lake Irrigation Co., for construction of South Fremont Co. Project, 6,000 acres. Bartlett Bros., Cheyenne, engineers.

**Wyo., Lander**—Temporary officers for Wind river reservation irrigation project: J. J. Jewett, president; A. B. Tonkline, secretary.

### BIDS WANTED.

**Iowa, Storm Lake**—Lettings here April 7: Supervisors of Buena Vista county will meet at 2 p. m., Tuesday, April 7, 1914 for awarding contract or contracts for improvements in drainage district 55; main, 18-inch, 1,000 feet, 4.20, May 1, 1914, July 1, 1914; main, 16-inch, 1,300 feet, 5.90, 1; main, 15-inch, 1,045 feet, 5.50, 1; main, one concrete bulkhead about two yards and one catch basin, 2, lateral No. 1, 7-inch, 1,000 feet, 4.30 June 1, 1914, July 1, 1914; lateral No. 1, 6-inch, 217 feet, 4.20, 2; lateral No. 1, one catch basin. The average haul is about 8½ miles from Storm Lake and 5 miles from Truesdale. Supervisors will meet at 1 p. m., April 7th, for awarding contract or contracts for improvements in drainage district No. 3; main, 24-inch, 1,650 feet, 5.70, July 1, Sept. 1; main, 18-inch, 150 feet, 5.00; main, 16-inch, 400 feet, 5.20; main bulkhead of three yards; main 600-foot open ditch cleaning, 4-foot bottom, average depth 0.50 feet; average haul, five miles from Storm Lake, Truesdale and Alta. W. W. Bennett, county auditor.

**Iowa, Webster City**—Bids will soon be taken for several drains: Leksells, 154; Cottoington, 155; Kolling, 156; Tweed, 157.

**\*Minn., Aitkin**—Bids received by J. D. Lemire, county auditor, until 10 a. m., April 14, for ditch No. 20 of Aitkin county, requiring 1,199,832 cubic yards and estimated to cost \$210,562. Check for 10 per cent. Officially advertised in this issue of the Improvement Bulletin.

**Minn., Anoka**—Bids received until 10 a. m., April 11, by Anoka and Washington counties for judicial ditch 3; estimated cost, \$12,511. Wayne L. Ridge, engineer, Anoka, Minn.

**Minn., Buffalo**—Contract awarded to S. E. Anderson, Waverly, Minn., for ditch 19, Wright county, at \$8,000. J. S. Van Krem-lin, engineer, Watertown, Minn.

### CONTRACTS AWARDED.

**Iowa, Lake City**—Contract awarded to F. R. Green for drain 181.

**Iowa, Sioux City**—Contract awarded by Woodbury county board, to Crane & Co., Omaha, for Sandhill Lake ditch at \$6,500, 10.2 cubic yards.

## Water Works

*Notes arranged alphabetically by states.*

**Iowa, Albion**—Council decided to hire engineer to look over the water works plant and the probable cost of another reservoir.

**Iowa, Audubon**—Ward & Weighton were awarded contract for building a reservoir for city, capacity 200,000, at \$2,284. Ralph Robinson got contract for water mains at \$392.

**Iowa, Clarinda**—W. H. Early and others have petitioned for a water main in Orr's addition.

**Iowa, Clear Lake**—Keerl & Stevens, engineers, Mason City, are making plans for water works equipment, including two 10-inch water syphons for this place; R. S. Young, mayor.

**Iowa, Stanwood**—Council may call a special election for Mar. 30, to decide the water question.

**Minn., Fergus Falls**—The new electric pumps to pump water from Hoot lake have been installed.

**Minn., Osakis**—Water works bonds were defeated. H. E. Gingery, president of council.

**Minn., Sauk Rapids**—Council ordered that meters be installed by all water users before May 1.

**Minn., St. Cloud**—General Inspection Co., W. L. Fisher, manager recommends that 1,500-gallon per minute electric pump be installed at water plant at once.

**Mont., Clyde Park**—Election in April to vote on issuing bonds for \$18,000 for water works system.

**Mont., Columbus**—McLaughlin & Neill of Livingston have started work on the water system, a reservoir with a capacity of \$5,000 gallons will be built on the bluff north of town.

**Mont., Dillon**—New water pipes are badly needed to replace the old wooden pipes now in use. Council may consider a better system soon.

**Mont., Eureka**—Council is considering a better water system. Eureka Lumber Co. made a proposition to take over the entire management of pumping water and to install a 25 h. p. electric motor. A. G. Naundorf interested.

**Mont., Glasgow**—Council resolved to make extensions to water works system. Objec-

tions April 8; E. E. Crawford, clerk.

**Mont., Judith Gap**—President Gans of the commercial club has appointed a committee to investigate fire protection for the city. A water works system will be considered, and if found too expensive chemical engines will be purchased.

**Neb., Brunswick**—Water works bonds were voted.

**Neb., Norfolk**—Water mains will be extended to Edgewater park and on E. Norfolk av.; cost \$10,000.

**Neb., Orchard**—Agitation has started for better fire protection.

**Neb., Rushville**—Bids received by H. L. Jacobs, clerk, until 2 p. m., March 27, for steel tower and tank, engineer's estimate, \$3,100.

**Sask., Humboldt**—Bids received by W. H. Stiles, 8 p. m., April 15, for laying water mains, erecting water tower, furnishing cast iron water pipe, fire hydrants and valves, installing pressure filters, furnishing and laying wood stave pipe, constructing ejector station, etc. Chapin & Powers, engineers, Toronto and Winnipeg.

**S. D., Bryant**—Council voted \$16,000 for a municipal water plant.

### BIDS WANTED.

**Iowa, Winterset**—Bids received by H. S. Ely, clerk, 7:30 p. m., April 6, for following supplies for water plant, 25 meters, 20 pounds of packing, rubber valves, 25 electric meters, 1,000 electric lamps, belting, etc.

**Man., Kirkfield**—Bids received by Frank Ness, clerk, April 4, 12 noon, for 3,100 feet of 8-inch and 30,300 feet of 6-inch water pipes, 71 hydrants with valves, etc. Check for 5 per cent. Bids will be received at same time and place for laying and fixing water-pipes in Deer Lodge subdivision, Deer Lodge Park and Ravenswood. Check for 5 per cent.

**Minn., St. Cloud**—Bids received by Geo. G. Magnuson, city clerk, until 3 p. m., Mar. 31, for furnishing and installing one 1,500-gallon centrifugal motor-driven fire pump. Check for 10 per cent. Advertised officially in this issue of the Improvement Bulletin.

### CONTRACTS AWARDED.

**Iowa, Council Bluffs**—Contract let for four miles of mains to American Pipe Co., Kansas City, Mo.

## Sewers

*Notes arranged alphabetically by states*

**Iowa, Cedar Rapids**—The city council contemplates the construction of a sanitary sewer in certain streets, avenues and alleys; L. J. Storey, city clerk.

**Iowa, Des Moines**—Plans are being prepared by F. Carrs, city engineer, for 823 lineal feet of 10-inch and 331 feet of 12-inch sewer pipe in 3d st., etc., and 1,220 feet of 10-inch sewer pipe in Columbia st. Horace Susong, city clerk.

**Iowa, Des Moines**—Hearing April 1 on a line of sewer on W. 24th st.; Horace Susong, city clerk.

**Iowa, Guthrie Center**—Plans for a big sewer system for this city are being investigated by Lafayette Higgins, engineer for the state board of health.

**Iowa, Osage**—Plans for the sewer system has been completed and accepted by the city; total cost will be \$96,000, but the present purpose is to not undertake more than can be covered by \$75,000; address city clerk.

**Iowa, Perry**—Council has instructed H. S. Dugan, city solicitor, to prepare a resolution of necessity for a sewer system on W. Warford and W. Willis and the Pattee River-view heights, probably also on other streets; address city clerk.

**Iowa, Sioux City**—Plans have been prepared for a sanitary sewer in upper Jackson, Jones and Jennings sts., and a petition has been presented for its construction; address city clerk.

**Iowa, Mason City**—F. P. Wilson, city engineer, is preparing plans for intercepting sewer and sewage disposal plant, including 6,000 lineal feet 36-inch vitrified sewer pipe; also for 4,000 lineal feet 15-inch vitrified sewer pipe in sundry streets and 3 miles 8 to 15-inch sewer in sundry streets. J. Stanton, mayor.

**Iowa, Stratford**—Bids rejected for sewer system and sewage disposal plant; K. C. Gaynor, engineer, United Bank building, Sioux City.

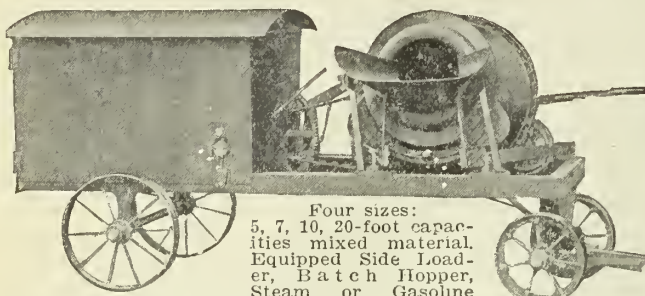
**Minn., Duluth**—Petitions have been filed for two sanitary sewers; C. S. Palmer, city clerk.

**Minn., St. Paul**—Contracts for eight street grading and sewer jobs, mostly small, were awarded, the most important ones being grading Hendon st., Cleveland to Como av., W. H. Malone, \$6,435; sewer on University av., Pascal to Hamline av., E. T. Webster, \$2,050; sewer on Armstrong av. between Pleasant av. and Chatsworth st., E. T. Webster, \$1,191.

**Minn., Watertown**—Material is on the ground for electric short line bridge across Crow river.



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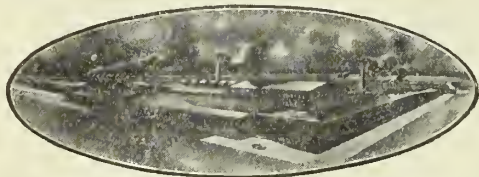
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MINNESOTA



**Mont., Great Falls**—Special election to vote on bonds in the amount of \$70,000 for sewer work will be held April 6. W. H. Harrison, city clerk.

**Neb., Atkinson**—D. L. Jouvenat, city clerk, will soon advertise for bids for sewer system to cost \$14,000, recently authorized. Bruce & Standeven, engineers, Omaha, Neb.

**Neb., Grand Island**—A new sewer district is being created, No. 42; H. E. Clifford, city clerk.

**Neb., Neligh**—A sewer system is being discussed here; address city clerk.

**Neb., Red Cloud**—The matter of building a sewer system will be voted on April 7, to cost \$15,000.

**Neb., York**—The adoption of plans and specifications for a sewer system is before the council; A. B. Chatterton, city clerk.

**N. D., Grand Forks**—City engineer has been instructed to prepare plans and specifications and estimate of probable cost of lateral sewer as petitioned for on 5th av.; Chas. J. Evanson, city auditor.

**Wash., Centralia**—The question of constructing a trunk sewer of concrete 10,000 feet 8x55 feet diameter, 15-foot cut, to cost about \$150,000, has been definitely decided upon. Stanley Macomber, city engineer.

**Wash., Chehalis**—City commission is making arrangements to put in a sewer trunk line on Prindle st., to cost about \$30,000.

**Wis., Kenosha**—Plans for an intercepting sewer to follow the banks of Pike river and Kenosha harbor have been completed by B. C. Brennan, city engineer.

**Wis., Oshkosh**—Hearing April 15 on sewer work on various streets. R. A. Hollister, chairman of the board of public works.

**Wis., Sparta**—Council has adopted a report of the sewer committee for the laying of a sewer pipe 672 feet south from Walrath and Water to Clifton st.

**Wis., Superior**—Over \$100,000 will be expended for sewer improvements this summer, according to present plans, half the amount going to Allouez and half to South Superior and Billings park; bids will be advertised for following the condemnation proceedings in Allouez.

**Wis., Watertown**—Plans are being made for 1,500 feet of 8 and 10-inch vitrified pipe sanitary sewer in W. Milwaukee and Union sts.; also for 1,500 feet of 12 to 18-inch vitrified pipe storm sewers in Montgomery st. Bids will be received by F. S. Weber, city clerk, about May 1.

#### BIDS WANTED.

\***Minn., Carlton**—Bids received by A. H. Lee, village recorder, until 8 p. m., April 6, for sewers, manholes and flushtanks, as advertised in this issue of the Improvement Bulletin.

**Minn., Duluth**—Bids received by C. S. Palmer, clerk of the commissioner of public works, until 10 a. m., March 27, for one car load of tile sewer pipe, 6 and 8 inch, and 6 and 8 inch Y's, as may be ordered from time to time; check for 10 per cent.

**Neb., Omaha**—It is stated that bids will be opened by King & Rohrbach, engineers, 316 McCauley building, Omaha, about April 1, for extending outlet of 18-inch sewer, 8,000 feet and putting in sewage purification works at Dundee; cost about \$18,000; E. R. Hume, clerk, 904 N. 49th st.

\***Wis., Menominee**—Bids received by J. R. Mathews, chairman board of public works, until 2 p. m., April 15, for combined sewers, as advertised in this issue of the Improvement Bulletin.

#### CONTRACTS AWARDED.

**Iowa, Davenport**—Contract with the D. E. Keeler Co. for the lateral sewer system in sub-district No. 7 of main district No. 13, at \$18,206.

**Minn., St. Paul**—Contracts for sewer work have been awarded by the board of public works as follows: Sewer on Armstrong av. between Chatsworth st. and Pleasant av., E. T. Webster, \$1,191; sewer on University av. between Pascal and Hamline avs., E. T. Webster, \$2,050; sewer on Fuller av. between Victoria and Fisk sts., Christ Johnson, \$607.60; sewer on Blair st. from Farrington to Virginia avs., Christ Johnson, \$235; sewer on Alice st. from Ohio st. to a point 190 feet west, Feyen Construction Co., \$497.

**Neb., Hastings**—Contract with A. H. Truax for a block of sewer and water works piping on 2d st. at \$18 for the sewer and \$820 for the water works.

**N. D., Grand Forks**—Contract with the Robinson-Van Alstine Co., for lateral sewer No. 14, district No. 4, at \$4,476. Other bidders were: L. W. Schrueth, \$5,413; G. F. Concrete Co., \$5,224; E. T. Webster, \$6,826; Northern Constr. Co., \$5,144; Haggart Const. Co., \$5,499.

**Wis., Milwaukee**—Contract with John Bowler for the construction of the 5-foot concrete intercepting sewer on Locust st., from Humboldt av. to N. Pierce st., on his bid of \$11.50 per lineal foot. The total distance is 1,275 feet and the sewer will cost \$14,700.

## Bridges

Notes arranged alphabetically by states.

**Alta., Calgary**—Plans have been submitted to city engineer G. W. Craig for erection of new Louisa bridge on Center st., cost \$68,000.

**Iowa, Iowa City**—A proposition for a \$60,000 bridge to be erected over the Iowa river will be submitted to the county at next general election.

**Iowa, Knoxville**—Federal Bridge Co., Des Moines, received contract for 11 steel culverts at \$17,976; Marsh Engineering Co., Des Moines, 43 galvanized culverts, \$18,700; Thor Construction Co., Cedar Falls, 12 galvanized culverts, \$5,837; A. Phelps, Knoxville, 33 culverts, \$15,115; W. O. Price, county engineer.

**Iowa, Spencer**—County supervisors resolved to build 18 bridges and culverts; objections March 26; A. W. Chamberlain, county auditor.

**Minn., Brainerd**—Council awarded contract for bridge fill to McCullough & Cheney, Minneapolis. Bids for culverts rejected; city engineer instructed to build culvert.

**Minn., Crosby**—Crosby Commercial club has called a meeting to discuss best site for bridge over Mississippi in vicinity of Bear Lake; plans soon.

**Minn., Good Thunder**—Building of concrete bridge near the John Gainer farm was voted on and carried.

**Minn., New Ulm**—Plans being made for concrete and steel approaches to two bridges and will be ready some time in May. F. D. Minium, city engineer.

**Minn., Parkers Prairie**—Eastern township voted to build three steel bridges providing county will help. A. C. Rosenquist, clerk.

**Minn., Shakopee**—County Engineer Childs went to Glendale to look over Woodruff Hill. J. J. McCann will probably supervise work of raising bridge and building grade.

**Mont., Divide**—A bridge will be built over Big Hole river here by Beaverhead and Silver Bow county board.

**Neb., Beaver City**—Contract for county bridges for year 1914 will be let Mar. 26. J. T. Nickerson, county clerk.

**Neb., Blair**—All bids on county bridges for 1914 were rejected and board will let separate contracts for each bridge as it comes up.

**Neb., Madison**—Western Bridge & Construction Co. received contract for construction of fifteen steel bridges in Madison county.

**Wis., Osceola**—Council will have city bridge repaired. David McLean, clerk.

**Wis., Racine**—Park board are discussing building a dam and bridge across Root river in the vicinity of Cedar Bend.

**Wis., Superior**—It is reported that Northern Pacific Railroad Co. is preparing to advertise for bids for construction of extension to Belknap st. viaduct.

#### BIDS WANTED.

**Minn., Beaver Creek**—Bids received by Geo. Crossman, chairman town board of Beaver Creek township, 1 p. m., April 4, for construction of a 40-foot, 3-girder span bridge, 18-foot roadway between sections 14 and 23. Check for 5 per cent.

**Minn., Bemidji**—Bids received by J. L. George, county auditor, 2 p. m., April 1, for furnishing 113 corrugated metal culverts. Check for 10 per cent.

**Minn., Center City**—Bids received by A. F. L. Stromgreen, county auditor, 3 p. m., April 16, for building state bridge No. 1176 on state road No. 4, in town of Sunrise. Will be double 30-foot beam span, 18-foot roadway, concrete and steel foundations.

**Minn., Hector**—Bids received by W. O. Calef, 2:30 March 27, for bridge No. 1218, between sections 22 and 27, town of Hector, 30-foot clear span, I-beam abutments with concrete backing; check for 5 per cent.

**Minn., Little Falls**—Bids received by B. Y. McNairy, county auditor, 2 p. m., April 7, for building state bridge No. 1223, in town of Bellevue; will be 90 feet, 18-foot roadway, concrete floor; check for 5 per cent.

**Minn., Olivia**—Bids received by J. L. Johnson, county auditor, 2:30 p. m., Mar. 27, for construction of 7 bridges. Check for 5 per cent. Plans at office of State Highway Commission, St. Paul.

**Neb., Kearney**—Bids received by J. H. Dean, county clerk, 12 m., March 25, for all bridge work in Buffalo county for year 1914; check for \$500.

**N. D., Bonetrail**—Bids received by O. I. Wilson, clerk, till 2 p. m., April 4, for two stone arch bridges; certified check required.

**N. D., Devils Lake**—Bids received by J. A. Kramer, county auditor, 2 p. m., April 7, for a 50-foot steel truss bridge, 22-foot piling on line between Benton and Ramsey counties. Check for \$100.

**N. D., Devils Lake**—Bids received by J. A. Kramer, county auditor, 2 p. m., April 7, for six bridges as follows: Thirty-foot bridge, 16-foot piling, section 26 and 27-157-

61; 12-foot bridge, 12-foot piling, 24-156-64; 12-foot bridge, 12-foot piling, 19-156-63; 16-foot bridge, 16-foot piling, 21-157-60; 12-foot bridge, 12-foot piling, 17-157-62; 12-foot bridge, 12-foot piling, 20-157-62. All of said bridges to be steel, reinforced concrete and eighteen feet in the clear. Check for \$300.

**N. D., Grand Forks**—Bids received by Hans Anderson, county auditor, 10 a. m., April 6, for construction of any and all steel or concrete bridges that may be built during 1914; check for \$590.

**N. D., Grand Forks**—County board has been petitioned by residents of Johnstown township for a bridge between sections 22 and 23 in said township.

**N. D., Minnewaukon**—Bids received by W. E. Paulson, county auditor, 2 p. m., April 1, for eleven culverts, 12 to 72 inches.

**N. D., Minnewaukon**—Bids received by W. E. Paulson, county auditor, 10 a. m., April 1, for steel bridge 28 feet long, 18 feet wide, 7 feet high, 28-foot piling, across coulee in township line between sections 2 and 36; one steel bridge, 24 feet long, 18 feet wide, 7 feet high, 28-foot piling, across coulee between sections 12 and 13-153-70; check for \$50.

#### CONTRACTS AWARDED.

**S. D., Clear Lake**—Contract for building bridges in 1914 let to Wm. Woolworth, this city.

**Iowa, Mason City**—Contract has been let to S. R. Bowen, for 10,500 lineal feet of 8 to 10-inch vitrified sewer pipe in Parker Place Addition. J. Stanton, mayor; F. P. Wilson, city engineer.

**Iowa, Ottumwa**—Contracts have been let to John W. Scott for sewer work in Mill st., and to John Quinn for the Blakes branch sewer.

**Iowa, Sioux City**—Contract let for construction of county bridges, concrete, as follows: Iowa Bridge Co., \$8,214; Geo. W. Gardner & Co., contracts totaling \$3,349; Western Bridge Co., contracts totaling \$463. Bids for steel bridges were rejected, and will be readvertised. If bids are too high the next time county will build bridges under supervision of county engineer.

## Public Buildings

Notes arranged alphabetically by states.

**Idaho, Lewiston**—Bids received by county clerk until April 13 for painting court house and jail. Bids recently submitted, rejected.

**Iowa, Iowa City**—Council has voted to begin work on the new pest house; thoroughly modern, bath, toilet, separate apartments for helpers, city water, drainage; address city clerk.

**Iowa, Le Mars**—All bids for the United States postoffice were rejected; new drawings will be prepared and the project readvertised.

**Iowa, Pilot Mound**—City hall building proposed; 2-story and basement; cost, \$5,000. Address city clerk.

**Minn., Bemidji**—Fire destroyed the county house at the poor farm; loss, \$6,000; fully insured.

**Minn., Crookston**—Proposition submitted to the people for an armory carried by a small majority; address Capt. Elide for particulars.

**Minn., Hutchinson**—The proposition to bond the city for \$15,000 for a city hall carried by a large majority. Address city clerk.

**Minn., Kinney**—A town hall will be built here in the near future to house the fire apparatus, jail, municipal judge's and recorder's offices, and to cost about \$10,000. Address village clerk.

**Minn., Owatonna**—Paul H. Evans is chairman of the committee securing funds for the armory, toward which the state will contribute \$15,000.

**Minn., Thief River Falls**—Library board has voted to accept the \$12,500 offered by Carnegie corporation for a public library; a site will be determined upon at once. H. C. Rowberg, secretary of board.

**Mont., Forsythe**—A special election will be called to vote on bonds for \$20,000 for a city hall and jail.

**Neb., Geneva**—A vote will be had this spring on a proposition to build a \$10,000 city hall and hose house; address city clerk.

**Neb., Gothenburg**—An architect will soon be selected for the proposed \$8,000 Carnegie library building.

**Neb., Hartington**—Definite action is expected soon on the Carnegie library, to cost \$10,000.

**Neb., Loup City**—Bond issue for \$75,000 court house will soon be submitted. Address city clerk.

**Neb., Minden**—Council is planning for a city jail and an additional room for housing city's fire apparatus, also purchasing a new boiler, cost of all being about \$3,300; also a vault for safe-keeping of city records. Address city clerk.

**N. D., Lakota**—At the recent special elec-



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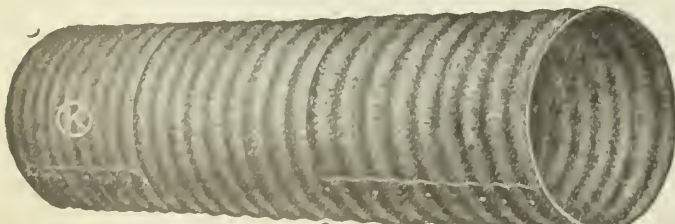
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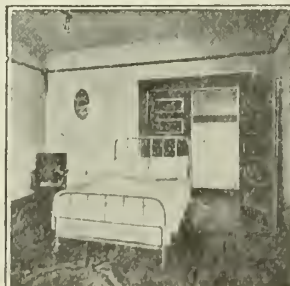
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tion the proposition carried for the new municipal building. Address city clerk.

**N. D., Williston**—Bids on the United States postoffice building here were as follows: Geo. W. Stiles Construction Co., Rookery building, Chicago, \$82,828 and \$92,828; General Construction Co., Milwaukee, Wis., \$86,900, \$90,980, \$86,410 and \$90,410; Potters Lumber Co., East Liverpool, Ohio, \$89,878, \$98,890, \$90,900 and \$99,920; J. W. Miller, St. Paul, Minn., \$93,282 and \$93,120; W. D. Lovell, Minneapolis, \$85,000 and \$85,890; J. H. Weise, Omaha, Neb., \$87,315; Northern Construction Co., Milwaukee, Wis., \$85,690, \$89,290, \$86,100 and \$89,700; John Lauritzen, Fergus Falls, Minn., \$84,990 and \$85,865; Hiram Lloyd Building & Construction Co., St. Louis, Mo., \$85,555, \$89,555, \$86,555 and \$90,555.

**Sask., Regina**—The Dominion government, department of public works, have included in their estimates the building of an armory to cost \$75,000.

**Sask., Regina**—The Royal Northwest mounted police contemplate building a brick guard room to cost \$20,000. A. B. Perry, commissioner.

**S. D., Bridgewater**—Special election Mar. 24 to vote on buying a half section of land and building an asylum and poor house. A. E. Ecklein, county auditor.

**S. D., Gannaway**—Voters of Buffalo county will express themselves Mar. 24 on a \$3,000 court house; W. H. Abernathy, county auditor.

**S. D., Salem**—Election in McCook county March 24 for buying a half section of land and equipping same for an asylum and poor farm. A. E. Ecklein, county auditor.

**Wis., La Crosse**—An armory is being urged large enough for both local companies and for use also as a city auditorium; secretary board of trade for information.

**Wis., Peshtigo**—Plans are being prepared by C. H. Danielson for the new jail addition to be built at the engine house, 22 feet square, one story high.

**Wyo., Wheatland**—Plans for a court house for Platte county have been prepared by Barresen Bros., 2-story and basement, \$40,000.

#### BIDS WANTED.

**Alta., Bassano**—Bids will soon be called for the erection of a postoffice and customs house to cost \$35,000; 2-story, 45x65, concrete foundation, steel and brick construction, stone trimmings, electric lighting, steam heating, maple and fir floors, wood fibre plaster, plate glass, fire escapes. For the Dominion government, department of public works. Secretary, R. C. Desrochers, Ottawa. Government architect, D. Ewart, Ottawa, Ont.

**Idaho, Boise**—Commissioner Finnegan has been authorized to prepare plans for the fire station on the south side, to be of brick. Address city clerk.

**Minn., Staples**—Readvertised bids received by F. W. Flindsen, city clerk, until 8 p. m., Mar. 24, for cells, window guards, screens and jail doors for the new jail. Check for 10 per cent.

**Mont., Hamilton**—Bids received by board of county commissioners until April 6, for a main exhibit hall, poultry building, machinery hall, ten cattle stalls, and twelve box stalls on the county fair grounds. Plans by F. H. Bailey. Check for \$10. J. T. Coughenour, Jr., clerk.

**Mont., Roundup**—Bids received by Fred E. Renshaw, clerk and recorder, until 10:30 a. m., April 1, for a vault in the office of the county treasurer, inside dimensions to be 8x10 feet, by 7 feet 6 inches high; submit bids for both concrete and brick outside walls.

#### CONTRACTS AWARDED.

**Idaho, Pocatello**—Contract for installing plumbing and heating in the postoffice building here has been awarded by Plamberg & Mattson, the contractors, to W. C. Laws & Co., Astoria, for \$13,000.

**Minn., Staples**—Contract with Demarais Bros. for the new city jail; plumbing and heating to Geo. W. Horner. Cells and other iron work rejected as being too high, and new bids will be asked for this part of the work.

**Minn., Willmar**—Contract has been let to C. Beckwith, Minneapolis, to remodel the building where Elfstrum's drug store is located into a moving picture theater for M. H. Carey; front of white tile, stucco and concrete, ventilating system, hot air heating.

**Mont., Ekalaka**—Contract with Security Bridge Co., Billings, for the jail building for Fallon county; 20x24, two steel cells, which will be supplied by the Pauley Co.

**Neb., Plainview**—Contract to R. W. McHale for the tile, brick work, concrete and excavation for the court house of Pierce county.

**N. D., Ellendale**—Contract for the municipal building here has been given to Burnett & Nibbe, Lidgerwood, N. D., at \$11,680. Other bidders were F. M. Johnson, Aberdeen, S. D., \$13,022; S. W. Jonason, Aberdeen, \$12,965; F. A. Hancock, Morris, Minn., \$14,621.

## Theatres and Halls

Notes arranged alphabetically by states.

**Iowa, Dow City**—An opera house and dance hall will be built here by Chas. Smith. **Iowa, Holstein**—Lorenzen Bros. will build a moving picture theater opposite the Clifford hotel.

**Iowa, Mason City**—Preliminary plans are in progress for an auditorium and armory for the city; 83x120, 2-story and basement, seating capacity, 4,000. C. H. McNeider, secretary, care First National Bank.

**Iowa, Nashua**—A. C. Larson, Ellsworth, has purchased a brick building here, which he will remodel into a moving picture theater.

**Iowa, New Hampton**—Organization effected to build an opera house; C. H. Kenyon, secretary; it is expected to sell stock to the amount of \$20,000.

**Iowa, Spirit Lake**—B. L. Francis will build an electric theater here.

**Iowa, West Liberty**—A committee of Mounty Calvary lodge has been appointed to secure plans and estimate for a new Masonic home.

**Minn., Brainerd**—The Elks have had about \$30,000 pledged for the proposed lodge building, to be located on the Hoffman corner.

**Minn., Montevideo**—C. S. Starbeck will build a theater and has been arranging for an architect in Minneapolis.

**Minn., Wabasha**—A city building is being remodeled to accommodate a moving picture theater which will be operated by Irving and Harry Burkhardt.

**Minn., Willmar**—Site for the proposed Elks building secured on option; handsome block proposed, two storerooms on first floor and lodge rooms on second and third floors; W. F. Gratz, treasurer.

**Minn., Windom**—Plans have been completed by P. J. Linhoff, 1007 Germania Life building, St. Paul, Minn., for the theater to be built by Redding & Stroud, city; 40x115; seating capacity, 650.

**Minn., Winona**—The gymnasium addition to the Y. M. C. A. is announced as almost fully determined upon, to cost \$20,000, and to be 70x90; W. G. Cartlish, secretary.

**Mont., Great Falls**—Alterations are to be made by the Sexton Show Co. on the theater interior at 325 Central av., to cost \$4,000.

**Neb., Alliance**—Wm. Rumer will remodel brick hotel into theater and store rooms; probable cost, \$8,000; H. DuBuque, manager.

**Neb., Fairbury**—C. W. Bartlett will convert the second floor of the Steel building into a dance hall; maple floor, two rooms, one 50x100, the other 25x100.

**Neb., Fullerton**—The Odd Fellows lodge building here, for which Geo. Stanley has the contract, will be 60x62, two stories and basement; cost \$8,000; stone and reinforced concrete foundation; first story, yellow buff brick, second matt faced brown brick, both trimmed with Carthage cut stone; front of plate glass and steel; asbestos roof, modern heating, lighting and plumbing; work to start at once.

**Neb., Havelock**—James Dalton has purchased a site for a moving picture theater.

**Neb., Hay Springs**—All bids rejected for the proposed Odd Fellows hall.

**Neb., Omaha**—The Druid camp of the Woodmen of the World is planning on building a home that will include a clubhouse, lodge room, billiard room and swimming pool; plans by J. P. Guth, architect; 100x100, \$30,000; Edward I. Foster, secretary.

**Neb., Red Cloud**—Odd Fellows will erect a home to cost \$6,000.

**Neb., Springview**—A building is to be built with a garage below and an opera house in the second story. Address the mayor.

**N. D., Alpha**—The Workmen of the World are planning on building a hall here; Ed. Elde, chairman of committee having matter in charge.

**S. D., Watertown**—Work is to be begun at once excavating for the Masonic temple on Oak st.; Bentley & Hausler, architects, Pioneer building, St. Paul; cost \$50,000.

**Wash., Seattle**—Kastner & Jonson, 20th N. W. and Market, have purchased a site for a \$7,000 moving picture theater building.

**Wis., Appleton**—All bids rejected at the recent opening for the Y. M. C. A. building; specifications modified and new bids asked for on Mar. 19; F. J. Harwood, secretary, 515 Mead st., city; Shattuck & Hussey, architects, 19 S. LaSalle st., Chicago. There were nine bidders Mar. 10 for the entire building, and about thirty on parts of the work.

**Wis., River Falls**—The Avery Steel & Iron Co., of Minneapolis, are furnishing two fire escapes for the Rainey Keefe Co., for their theater building.

#### BIDS WANTED.

**Iowa, Davenport**—Bids received by Temple & Barrows, general contractors, until Mar. 26, for plumbing, heating and ventilating for the new Blackhawk hotel; heating

and ventilating combined and will go to one bidder.

**Iowa, Marshalltown**—Bids received by the secretary of the Y. M. C. A. until March 23 for the plumbing, heating, ventilating and electric wiring of the new association building.

**Minn., Sauk Center**—Bids received by Roland C. Buckley, architect, St. Cloud, Minn., until May 1, for a theater and lodge hall. Name of owner withheld; 80x100, 3-story, brick, semi-fireproof; cost, \$35,000; steel frames, trusses, beams, cast columns and sash, iron fire escapes, reinforced concrete fireproofing, brown cut stone, common, pressed and hollow brick, red, steam heat, electric light, composition roof, common and ornamental plaster, tiled floor, also birch, oak and maple flooring.

#### CONTRACTS AWARDED.

**Ida., Glens Ferry**—Contract for the erection of the D. W. Gorby opera house has been awarded to Berg & Johnson, Mountain Home; to be of Salt Lake red pressed brick and Hayburn red pressed brick.

**Iowa, Cedar Falls**—Contract let to G. L. Smith, Waterloo, Iowa, for a theater to be built by J. L. McClinton, city; seating capacity, 500. Wm. Pedicord, architect, 207 Peck Rath building, Waterloo.

**Iowa, Sutherland**—Contract has been let to Chas. L. Nott for a new opera house to cost \$10,000.

**Mont., Great Falls**—The Collins Plumbing & Heating Co. was the low bidder, at \$16,000, for the plumbing contract for the Pan-tages theater, and will probably secure the work; the Electric Shop got the wiring contract at \$9,000; both are home firms.

**Wash., Tacoma**—Contract for the new moving picture theater on C st. has been let to J. E. Bonnell for approximately \$25,000; 100x120, finishings and decorations not included in contract to Bonnell and it is said they will amount to about \$50,000, exclusive of the pipe organ. Eugene Levy has a long-time lease.

**Wis., Janesville**—Contract has been made for the remodeling of the Y. M. C. A. building; stone steps, redecorations in the parlor, beamed ceilings, tiled floors, lobby wood-work to be Flemish oak, with new furniture to correspond; Dr. E. E. Loomis, chairman of the building committee.

## Hotels and Hospitals

Notes arranged alphabetically by states.

**Alta., Edmonton**—George Brown, proprietor of the Empire hotel, situated on 2d st., contemplates making an addition to the building. The architect will be Mr. Henderson, Crystal block, Edmonton. The work is expected to commence about June 1.

**Alta., Edmonton**—Plans are being drawn for the building of a hotel to cost \$300,000. The owner, Robert Moore, St. Elmo hotel, contemplates building new hotel on site of old building. Will be red pressed brick construction of ten stories, 66x100.

**Iowa, Glenwood**—Preliminary plans are in progress by H. F. Liebbe, state architect, for a state tuberculosis hospital here, 1-story and basement, \$10,000.

**Iowa, Muscatine**—Plans are in progress for the hotel here. Hyland & Green, architects, 29 E. Madison st., Chicago. Owner's name withheld. Hull & Leyman, managers, Peoria, Ill.

**Minn., Crookston**—The Bethesda Hospital association has bought property adjoining its hospital and has been discussing building an addition; M. G. Peterson, of Fertile, is a director. The association is reported to be in a flourishing condition.

**Minn., Granite Falls**—A move is on foot for a 60-room modern and up-to-date hotel; address secretary Commercial club.

**Minn., Guckeen**—S. Cegelski and H. Hook will form a partnership and build a combined hotel and store building.

**Minn., International Falls**—The Rex hotel will be remodeled, 40 rooms added, each with private bath, dining room doubled in size, three sample rooms, several fire escapes, private telephone exchange.

**Minn., Mankato**—The Saulpaugh hotel is to be remodeled and improved, adding about fifteen rooms. Work to begin about April 15.

**Minn., Virginia**—The New Fay hotel is to be entirely remodeled, redecorated throughout, and otherwise improved.

**Minn., Williams**—Paul Brushey is securing material for a 26-room hotel, which will be erected in the spring.

**Mont., White Sulphur Springs**—The old Phelps hotel is to be remodeled by Charles Sherman, Richard Manger and P. J. Twohey, at a cost of \$15,000; steam heat will be installed, modern lighting fixtures, hot and cold water in the rooms.

**Neb., Axtell**—Nebraska Lutherans plan to erect a modern hospital building on a 40-acre site near here; Jasper Holmquist, secretary, Minden, Neb.



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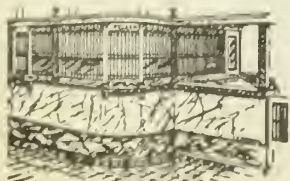
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**Neb., Omaha**—Plans are in progress by J. H. Craddock, architect, Continental building, Omaha, for the state deaf and dumb institute here; 60x171, 2-story and basement; cost, \$60,000. Address Board of Control, Lincoln, Neb.

**N. D., Bismarck**—A new hotel, frame, two stories, is to be built here; address the mayor.

**N. D., Campbell**—A new hotel is to be built here in the spring, concrete; address the mayor.

**S. D., Sioux Falls**—The roof of the Carpenter hotel is to be raised and a convention hall made on the seventh floor, and a 22-foot addition built on the north.

**Wis., Chippewa Falls**—J. E. Broadwell, Minneapolis, and O. C. Gross, Chicago, representing H. L. Stevens Co., architectural engineers, are figuring on erecting a hotel here which is being promoted by the Progressive league, Mr. Johnson, secretary; 4 stories, top floor for Commercial club rooms.

**Wis., Eau Claire**—A room phone system is to be installed in the Commercial hotel; also a ventilating system and hot and cold water in the higher priced rooms.

**Wis., New Richmond**—Col. Anthony Meath has settled the insurance on the recently fire-damaged Commercial hotel and will reconstruct, enlarge and improve the hotel at once; among the various other improvements, the interior is to be overhauled, replastered and redecorated.

#### BIDS WANTED.

**Wis., Wales**—Bids received by Ralph E. Smith, president state board of control, at Madison, Wis., until 2 o'clock, Mar. 25, for the children's dormitory, nurses' home and men's dormitory for the state tuberculosis sanatorium here; plans by A. C. Eschweiler, architect, Milwaukee; also for completing a warehouse; check 4 per cent; plans on deposit of \$10.

**Wis., Whitelaw**—Bids received by the clerk of Manitowoc county, until March 30, for an addition to the Maple Crest sanitarium; 20x96, 2-story, frame, \$6,000; concrete foundation, shingle roof, wood cornice, common glass, patent and pulp plaster, steam heat, maple and composition flooring, yellow pine interior finish, two bath rooms, cementing, electric bells and lights, plumbing, screens, storm sash, ventilators. Raeuber & Mehner, architects, Manitowoc.

#### CONTRACTS AWARDED.

**Iowa, Carroll**—Contract has been let to W. J. Zitterell, Webster City, Iowa, for the remodeling and addition of thirty-one rooms to the Burke hotel, owned by Mrs. Burke. Work will be started April 1.

**Minn., Bemidji**—Bids for the hotel proposed here will be taken by the Lyman Co. on March 27, not on the 11th.

**Mont., Ryegate**—Contract for the plumbing, heating and possibly the lighting of the Babcock hotel has been let to the Goss-Stott Plumbing & Heating Co., of Harlowtown, Mont.

## Schools

Notes arranged alphabetically by states.

**Alta., Edmonton**—Building committee of the Robertson Presbyterian college have decided to erect a \$150,000 theological building on grounds of University of Alberta.

**Alta., Edmonton**—Bids have been received for electric lighting fixtures for five 17-room schools now in course of construction, for the public school board. M. Brady, secretary-treasurer; Geo. E. Turner, building commissioner.

**Alta., Daysland**—The school districts of Fertile, Oure, Leith and Baetman contemplate erection of a consolidated school. Further information can be obtained by writing to Mr. Ottewill, University of Alberta, or Mr. Daysland, chairman of the school board, Daysland.

**Alta., Medicine Hat**—Plans are nearly completed for erection of the high school on 5th av.; 190x140, stone and brick; plans by Architects McCoy & Levine, Hooper and Buckvale block. Plans to be completed this month; cost, \$300,000; to be built this year.

**Iowa, Buck Creek**—A 1-story and basement school will be built, 30x38 and 16x20; plans in progress by Architect J. F. Leitha, 114½ E. Water st., Waverly, Iowa; owner, St. John's Evangelical church, Rev. Adix, pastor, Buck Creek; cost \$7,000.

**Iowa, Cedar Falls**—State board of education held meeting here to decide on what kind of a building was to be erected for the state teachers' college, with a fund of \$100,000 available.

**Iowa, Postville**—Commission awarded to H. E. Neloit, for drawing plans for the new \$40,000 high school here.

**Man., Bird's Hill**—Bids were received by secretary, W. Gorham, E. St. Paul's school district, for erection of a school house, 2-room, brick and stone.

**Minn., Crookston**—A consolidated school will be erected in town of Oaklee (not P.

O.), Red Lake county, districts Nos. 2 and 210; Albany DeForge, county superintendent.

**Minn., Granada**—Avery Steel & Iron Co. are furnishing the reinforcing bars for the new high school building. Lars Pearson, contractor.

**Minn., Grygla**—School plans approved by S. A. Challman, state commissioner of school buildings, University of Minnesota, for a 1-room frame school building in Beltrami county, district No. 113. Paul Paulson, clerk.

**Minn., Minneapolis**—Plans approved by S. A. Challman, state commissioner of school buildings, University of Minnesota, for addition to a 4-room school house, Ivanhoe county, according to plans and specifications submitted by H. E. Walker, architect, Minneapolis, Minn.

**Minn., Minneapolis**—Plans approved by S. A. Challman, state commissioner of school buildings, University of Minnesota, for installing heating and ventilating plant in a 1-room school building, Wright county, district No. 4, according to plans and specifications submitted by Roberts-Hamilton Co., Minneapolis, Minn.

**Minn., Moorhead**—Plans approved by S. A. Challman, state commissioner of school buildings, University of Minnesota, for addition to 4-room school house, Wolverton county, according to plans and specifications submitted by A. J. Fridlund, Moorhead, Minn.

**Minn., Pine City**—Kelley & Williams, architects, Duluth, Minn., have prepared plans for erection of a 3-story school building, 90x54, brick, cost \$25,000, for school district No. 3; field rock foundation, Menomonic brick, Bedford stone, tar and gravel roof, D. S. A. glass, patent hand plaster, steam heat, maple flooring, birch finish, boilers, black boards, cementing, electric light and bells, dynamos, hollow tile, iron beams, plumbing, skylights, ventilators.

**Minn., Plato**—The \$13,000, 4-room, brick school burned; insured.

**Minn., Vining**—A new modern school, 4-room, will be erected here the coming summer.

**Mont., Livingston**—Two-story and ground floor public school will be erected here; cost, \$65,000. Link & Haire, Billings, and C. H. Turk, Livingston, prepared plans. Bids opened Mar. 16.

**Province of Alberta**—Beverly school district No. 2292, contemplates the extension of schools, etc. Thomas R. Dando, chairman, Beverly. Board will borrow \$20,000 to extend buildings, complete basement, erect fire escapes, construct fences and walks, playgrounds, etc.

**Sask., North Battleford**—A 3-story public school is being erected on York st.; stone and structural steel, and brick; cost, \$150,000. Architects Stephenson, Evans & Fillingham. General contract let to Reid, Brewster & MacDonald, Edmonton. H. Basil Thomas, secretary-treasurer.

**Sask., Regina**—The Saskatchewan Presbytery is still working on proposition to erect a \$1,000,000 denominational college in city; site has been purchased and grant secured. It is expected that some arrangements will be made for its erection during 1914. The Roman Catholics have in view the erection of a college.

**Wis., Arcadia**—A 2-story and basement school will be erected, 76x120; plans by Architects Parkinson & Dockendorff, Linker building, LaCrosse, Wis., assembly hall, gymnasium and ten recitation rooms, five grade rooms; bids received in care of W. C. Bohrnstedt, about Mar. 25; cost about \$40,000.

**Wis., Cazenovia**—A 4-room school will be erected, plans by A. W. Morrow, architect; bids received in about two weeks; cost \$9,000; plans with J. M. Canaan, clerk, or architect.

**Wis., Stockbridge**—A 2-story school will be erected here by the R. C. Church Association; 48x59; plans by Architects Parkinson & Dockendorff, Linker building, La Crosse, Wis. Bids received on Mar. 16; cost \$8,000; brick and Bedford stone, trimmings, composition roof, structural iron. Rev. Paul E. Herb, pastor.

#### BIDS WANTED.

**Alta., Lethbridge**—Bids will be called for soon for erection of a separate school in North Lethbridge; cost, \$50,000. F. W. Palmer, architect.

**Iowa, Randalia**—Bids received until 1 p. m., March 31, for school district of Randalia. Plans with Secretary J. E. Holmes.

**Man., Swan Lake**—Bids received until March 26, for school building at Norquay, S. D. (not a postoffice). Andrew Lytle, secretary-treasurer. Plans on file at Echo office, Swan Lake, Man.

**Minn., Melby**—Bids received until March 21, 4 p. m., for 2-room school building (except concrete work) separate bids for plumbing, heating, ventilating and carpenter work. Check for 10 per cent. Plans with R. A. Johnson, clerk. Alfred Berggren, treasurer.

**Minn., Taopi**—Bids received until Mar. 25 for erection of a school in district No. 74, Claytown township; plans with school board. Iver Erickson, clerk.

**Minn., Torgerson**—Bids received until April 11, 2 p. m., for construction of a school house, including all carpenter work, concrete foundation, brick chimneys, painting, oiling, etc.; check 10 per cent; plans with clerk, F. J. Olson, district No. 288, Pennington county, and district 153, Marshall county.

**Mont., Billings**—Bids will be called for March 21, for installation of fire escapes on the school in this city; A. J. Thorine, clerk.

**N. D., Gaglum**—Bids received until 12 noon, March 28, for erection of a school in district No. 15, Stark county. Plans at office of county superintendent. Check for \$250. B. J. Eide, clerk.

**N. D., Minot**—Bids received until March 23, for furnishing, constructing, and installing the following articles: Fly screens for ladies' main building dormitory, electric lighting fixtures for main building; cupboards, shelving, etc., for ladies' dormitory. Plans with A. G. Crane, president, Minot, N. D.

**Wis., Edgar**—Bids received April 1, by F. N. Orthen, for erection of a 2-story and basement school; 36x62, auditorium in basement; cost \$8,000; Architect Andrew Toth, Batavian, prepared plans. Owner, St. John's Catholic congregation; common brick, composition roof, structural iron.

**Wis., Endeavor**—Bids will be received until 7 p. m., Mar. 30, for addition to Christian Endeavor Academy, for entire work, except separate bids for plumbing, heating, ventilating and electrical. Plans at office of either Rev. W. M. Ellis, president; or Christian Endeavor Academy. Leenhouts & Gutherie, architects, Milwaukee, Wis., 424 Jefferson st.

**Wis., Kewaunee**—All bids rejected on 2½-story high school, new bids advertised for March 24. O. H. Brumemer, clerk.

**Wis., Mauston**—Bids received Mar. 16 for erection of an assembly hall, manual training department, gymnasium, nine class rooms, 2-story and basement school building, cost \$40,000. Plans by Architects Parkinson & Dockendorff, Linker building, La Crosse, Wis.; 65x116, and 65x50; paving brick, Bedford stone trimming, composition roof, two metal skylights, stone cornice, structural iron. M. L. Bunnell, Mauston, Minn.

#### CONTRACTS AWARDED.

**Alta., Edmonton**—General contract awarded to Read, Brewster & McDonald, 604 Tegner block, for erection of a school in Highlands; 2-story, 115x164, stone and pressed brick, work started this month; cost, \$150,000; white brick supplied by Aslip Brick Co., Pine and Kinnard sts.; red brick by Tregulus Clay Products Co., 304 Alexander block. Architect, G. E. Turner, Mortlake block. M. Brady, secretary-treasurer.

**Iowa, Marshalltown**—Contract awarded to W. F. Block, of this city, for construction of a consolidated school building at Liberty township, at \$10,363; bids does not include lighting, heating or plumbing; other bids were: Elmer Peterson, \$10,748; Western Constr. Co., \$10,900, and W. E. Lager, \$11,355; school will be a 2-story brick, 37x58, hollow tile faced with brick, cement floors over furnace, other floors wood, toilets, class rooms, furnace heat, manual training room, gymnasium, 22x28, modern.

**Iowa, Toledo**—Contract for main construction of school buildings were let as follows: General contract to C. W. Ennis, of city; plumbing and heating to Nevada Heating & Plumbing Co.; wiring contract to Davis & Evans Co., of Toledo.

**Minn., Alden**—A. P. Hansen has contract for erection of school in district No. 80; 18x30, modern.

**Minn., Winthrop**—Contract awarded to O. J. Olson, Bloomer, Wis., for erection of school house in district No. 44. Other bid; Andrew Lindstrom, Winthrop, Minn.

**N. D., Hesper**—Contracts on Hesper consolidated school, were awarded as follows: Masonry and carpentry to Skram & Kvalheim, Maddock, N. D., \$5,000; heating and plumbing to V. E. Brandy, New Rockford, N. D., \$1,225. Arthur Van Horn, architect, Bismarck, N. D.; J. M. Hellisvig, president; T. C. Robertson, clerk.

**Sask., Swift Current**—Frost Bros. were awarded contract for plumbing and heating in connection with public school for \$23,000.

**Wis., Darlington**—General contract awarded to Wm. H. Farley, New Lisbon, Wis., for erection of a 2-story school, cost \$12,500; E. Brielmair & Sons, architects, 41 University building, Milwaukee, Wis.; Holy Rosary church, owner; Rev. James Neven, pastor, Darlington; work started.

**Wis., River Falls**—Contract let to Emil Sedlachkek, Superior, Wis., at \$59,950, for construction of a 3-story and basement school, gymnasium, stage and agriculture rooms; 129x134; architects, Van Ryn & De Gelleke, 725 Caswell building, Milwaukee; owner, State of Wisconsin; Wm. Kittle, secretary state board of normal school regents, Madison; footings in.

**Minn., Fergus Falls**—Contract awarded to John Lauritzen for construction of the Industrial high school, at \$43,720, of this city.



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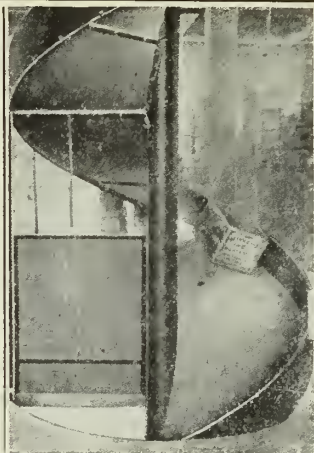
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Other bids received were: Madsen Bros., Minneapolis, \$43,723; J. P. Johnson, city, \$45,230; Gray Constr. Co., Watertown, S. D., \$47,443; Wold Construction Co., Brookings, S. D., \$52,824. Bids on heating and ventilating: F. S. Spencer, \$8,280 (awarded); M. Frankoviz, \$8,583; Chas. Wilkins & Co., Minneapolis, \$8,594. Bids for plumbing: M. Frankoviz, \$1,988 (awarded); Wm. Galena, \$2,329; Jos. Bauer, \$2,340; total cost of building, \$52,938.

**Minn., Ft. Francis**—The contract for the iron work for the new high school building was awarded to the Avery Steel & Iron Co., of Minneapolis. Stromberg & Samuelson, contractors.

**Minn., New Ulm**—Contract for heating and plumbing re-awarded to J. P. Adamson & Co., Minneapolis, at \$17,170, for heating and ventilating; \$7,300 for plumbing; fan motor and heating coils, to Morgan Gerrish Co., Minneapolis, at \$1,790; temperature regulation to Johnson Service Co., Minneapolis, at \$2,100; vacuum system, to Warren Webster Co., Camden, N. J., at \$994; general contract to J. B. Nelson Co., Mankato, at \$69,482.

## Churches

Notes arranged alphabetically by states.

**Alta., Edmonton**—Plans are being prepared for immediate erection of a church by the St. Joachim's Roman Catholic congregation; cost \$100,000.

**B. C., Victoria**—First Presbyterian church is raising funds to erect a new edifice.

**Colo., Windsor**—J. R. Smith, architect, Lincoln, Neb., prepared plans for a church building for the M. E. Society, R. N. Smith, pastor, Windsor, Colo.; 2-story, brick, 54x80, cost \$16,000; lime and artificial cut stone, pressed and common brick, steam heat, electric light, asbestos shingle roof, art glass, birch finish.

**Iowa, Greene**—A 1-story, 44x64 church will be erected by the Evangelical Lutheran Association. Bids received by Pastor Rev. H. Sprugies, Greene. Architect Morrison H. Vail, Dixon, Ill. Cost, \$5,000.

**Iowa, Nora Springs**—Plans in progress by Architect J. W. Trafzer, 315 Commercial block, Mason City, Iowa, for a church for the Methodist Episcopal church. Rev. Sewell, pastor, Nora Springs; cost, \$5,000.

**Minn., Boyd**—School district No. 86 plans to advertise for bids for addition to school

building and also to install heating and ventilating system. I. N. Brown, clerk.

**Minn., Fairmont**—Christian church will be brick, pressed brick, stone columns, oak finish, ornamental plastering, beam ceiling, art glass, central dome, indirect lighting, Boll auditorium, 42x50, seats for 300, balcony for 200, apartments for pastor, with modern flat improvements, bath room, kitchen, buffet, side board; finished basement, gymnasium, 30x50, kitchen in basement; W. R. Burton, pastor. Kirby T. Snyder, architect, Minneapolis.

**Minn., Rochester**—Commission to plan church awarded to Hoffman & Mosse, architects, Rochester. Church to cost about \$50,000.

**Minn., Tracy**—Bids were received March 14 for constructing a full basement under the Norwegian Lutheran church. Rev. O. M. Gullerud, pastor.

**Minn., Winona**—A \$25,000 Methodist Episcopal church will be erected here this year. Name to be changed from Olive Branch to William McKinley.

**N. D., Jamestown**—Presbyterian congregation will erect a modern church building, cost approximately \$26,000; 70x110; total seating capacity 900, basement with kitchen, entertainment rooms, parlor, rough variegated brick, heat by electric light plant system. Plans by Architect Harry Wachter, Toledo, Ohio.

**Sask., Bradenbury**—Roman Catholic congregation contemplates erection of a church building. Work to start this year.

**Sask., Estevan**—Plans are being prepared by Architects Fortin & Buchaman, Regina, Sask., for erection of a church for the Roman Catholic Association; cost, \$35,000, 110x80, stone foundation, and brick construction, concrete and maple floors, slate roof, electric lights, steam heat, leaded glass, seating.

**S. D., Brookings**—M. E. church will install a large pipe organ and build new parsonage; gymnasium also under consideration.

**Wis., Rhinelander**—Church of Christ congregation have decided to build a new church. Work to begin soon as plans are finished; cost, several thousands.

**Wis., Sheboygan**—A new English Catholic congregation has been organized and will be known as the St. Clements English Catholic congregation; Rev. Father Francis Murphy, pastor; steps will be taken for erection of new building at once.

**Wis., Superior**—Construction will be started May 1, on \$150,000 orphanage for Catholic diocese of Superior; Bishop Aoudelka, has

plans; vicar general J. B. Scheyer will have charge of work.

## BIDS WANTED.

**Iowa, Akron**—Bids will be opened April 1, 1914, for the new Lutheran church here; plans and specifications at home of Fred Messe.

**Minn., Watertown**—Bids received until April 15 for erection of a German Evangelical Lutheran church, three miles east of town; hollow tile brick and finished with stucco. Plans with Pastor, Rev. Geo. A. Sebald, president building committee.

**Wis., Thorpe**—Bids received March 18 for erection of a church for St. Bernard's Church Association; 47x116, cost \$22,000. Architects, Parkinson & Dockendorff, Linker building, La Crosse, Wis. Rev. John Neises, pastor.

## CONTRACTS AWARDED.

**Iowa, Amity**—Contract awarded to Enterprise Construction Co., Adolph Gethmann of Gladbrook, and Mr. Andrews, for new Amity church congregation; cost \$8,500; 46x60, furnace heat, brick.

**Iowa, Ridgeway**—Contract awarded to John Skoolheim, of Willmar, Minn., for erection of the Lincoln church.

**Minn., Gentilly**—Contract let to Edward Jackson, Bemidji, for \$25,000 Catholic church here; red brick, brown stone finish.

**Minn., New Richland**—Contract awarded to Erickson & Son of Waseca, at \$1,136, for improvements to the Norwegian Lutheran church; concrete basement wall.

**Mont., Libby**—Contract awarded to W. E. Reed on Presbyterian church rebuilt after fire.

## Elevators

Notes arranged alphabetically by states.

**\*Alta., Calgary**—The Alberta Co-operative Elevator Co. is planning to erect an elevator in East Calgary; capacity of 30,000 bushels.

**\*Iowa, Anchor**—The Farmers' Elevator Co. has awarded contract to the Younglove Construction Co., of Sioux City, for erection of a 30,000-bushel concrete elevator.

**Iowa, Conrad**—Russell and Elmer Bockes are planning to build a modern farm home; cost about \$8,000.

**Iowa, Council Bluffs**—E. C. Downs will erect a modern residence; cost about \$1,500.

**Iowa, Council Bluffs**—Fire destroyed the

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farm home of Mrs. Eliza Arp; loss about \$2,000; insured for \$1,000.

**Iowa, Davenport**—Permit was issued to C. E. Cline, for a \$2,500 1-story frame residence.

**Iowa, Davenport**—Fire damaged the residence of Dr. W. L. Allen, about \$8,000; fully insured.

**Iowa, Dubuque**—J. A. Loetscher, 175 Fenelon place, has completed plans for a new residence and is taking figures. Pressed brick, tile and stucco, roofing, tile, slate, and asbestos shingles; pressed brick mantels, electric fixtures, vacuum cleaner, tile and hardwood floors and finish, dumb waiter, steam heat, baths, lavatories, etc., pressure tank, water system, hard plaster.

**Iowa, Melcher**—G. J. Stewart & Co., of this city will locate a lumber yard and elevator here, if site can be secured.

**Iowa, Perry**—A committee, A. M. Doidge, Chas. Francis and Ed. Flood, met to organize a company and erect an elevator soon.

**Mont., Geyser**—Montana Central Elevator Co.'s elevator burned.

**Mont., Geyser**—Fire destroyed Montana Central Elevator Company's building here.

**Mont., Oxford**—Directors of the local farmers' elevator here are making preparations for erection of an elevator here; 30 000-bushel capacity.

**Neb., Trenton**—The Milbourn elevator has been sold to Frank Real of McCook.

**N. D., Cuba**—A farmers elevator will be erected here. M. F. Sharp, Minneapolis, C. J. Lee were organizers of a local Equity Exchange club.

**N. D., Milnor**—The Farmers' Equity Elevator Co. will erect an elevator at Hoving station if sufficient stock can be raised.

**Wis., Beaver Dam**—Roy Brown will erect a modern residence.

**\*Wis., Wausaukee**—The potato warehouse of the Thomas Produce Co. was damaged by fire; about \$800.

#### BIDS WANTED.

**\*Minn., Hanley Falls**—Bids received until Mar. 24, 2 p. m., for erection of a farmers' elevator at this place; plans at First State Bank. S. I. Simonson, secretary building committee.

#### CONTRACTS AWARDED.

**Iowa, Sioux City**—The Younglove Construction Co. has closed a contract for the construction of a new 25,000 bushel capacity grain elevator, for Makin & Harlan of St. Anthony, Iowa; work to commence soon.

**Neb., Adams**—The Farmers' Elevator Co., at Courtland, have arranged to erect a new elevator, contract awarded to G. H. Burdard, Lincoln, Neb.

## Electrical

*Notes arranged alphabetically by states.*

**Iowa, Dunkerton**—The title of the Balkeville Farmers Mutual Telephone Co. has been changed to the Dunkerton Mutual Telephone Co.

**Iowa, Keokuk**—Chas. H. Petsch, St. Paul, Minn., has plans ready and will begin work as soon as arrangements can be made on interurban road to Fort Madison, estimated cost \$400,000.

**Iowa, Keokuk**—Keokuk Electric Co. will extend car lines to ball park this summer. Cost \$10,000.

**Iowa, Little Rock**—A. H. Rudloff will erect a telephone office in the spring.

**Iowa, Lorimer**—Lorimer Telephone Co. has been organized with a capital of \$3,000; C. M. Barley, president.

**Iowa, Randolph**—J. E. Myers of Sidney bought the exchange here.

**Iowa, Sumner**—Sumner Light & Power Co. have asked a franchise to build transmission lines in Fayette county. Hearing March 26 at office of Wm. T. McClure, Sumner.

**Iowa, Waucoma**—Citizens have voted \$12,000 bonds for erection of a municipal electric light plant.

#### BIDS WANTED.

**Iowa, Winterset**—Bids received by H. S. Ely, city clerk, April 6, 7:30, for the following supplies: 25 electric meters, 1,000 electric lamps, 500 pounds of insulated wire, 500 pounds of copper wire, 100 cross arms, 400 pins, 250 DPDG insulators.

**N. D., Fargo**—Bids received by A. R. Watkins, city auditor, until 5 p. m., March 31, for furnishing all material for construction of a white way lighting system. Certified check required.

**Sask., Regina**—Bids received until 12 noon, March 25, for erection of power house by city commission. Storey & Van Egmond, architects, Regina. Check for \$5,000.

#### CONTRACTS AWARDED.

**Neb., Minden**—Contract for electric power station let to Alamo Engine & Supply Co., Omaha, at \$12,571. Contracts for two engines to Merkle-Hines Machinery Co., at

**Jens Knudsen**, local man, has secured a subcontract for construction of power house.

**Wis., Eau Claire**—Peter Johnson of Beloit has contract for extension of Fairchild & Northwestern line and for extension of electric line from Delavan to Fontana.

## Mills and Factories

*Notes arranged alphabetically by states.*

**\*Alta, Calgary**—The Fort William Starch Co. will erect a \$400,000 starch plant here.

**Iowa, Boone**—The Fitch Dandruff Co., F. W. Fitch, president, purchased site and contemplate erection of a factory soon.

**Iowa, Cedar Rapids**—Contractor John Klepach will soon start work on construction of building for the Sanitary Dairy; 40-foot frontage, 103 foot depth, hollow tile brick, cement floors, ventilation, drainage, one portion of building to be 1-story and one 2-story.

**Iowa, Keokuk**—George H. Priest, consulting gas engineer of the Stone & Webster Corporation is in city to make report on advisability of building a new gas works here; to cost about \$90,000.

**Iowa, Red Oak**—The Kerrihard Co. has begun construction of an addition to their plant; 70x90, fireproof, modern.

**Iowa, Slater**—A new creamery will be erected here, brick.

**Iowa, Waterloo**—The Armstrong Co. will erect a new plant, steel superstructure, fireproof; cost, \$75,000; modern throughout.

**\*Minn., Albert Lea**—A. A. Koch will erect a foundry and factory building here.

**Minn., Bemidji**—Work has begun on reconstruction of mill recently burned; cost about \$100,000; to be ready May 1.

**Minn., Crookston**—J. W. Lewis, who resides in Highland Park, is enlarging his factory.

**\*Minn., Medford**—Herman Swanson of Dassel, Minn., will erect a creamery building here.

**Minn., St. Paul**—The Hickory Gas Mantel Co. have purchased site and contemplate erection of a factory; cost, about \$20,000; 120x40. German Barnam, president, 375 Minnesota st.

**Minn., Minneapolis**—Fire damaged the J. C. Witte Mfg. Co. building about \$10,000.

**Minn., New Uim**—Eagle Roller Mill Co. has let contract to Allis Chalmers Co., of Detroit, Mich., for building a new turbine engine to be installed in their plant in the spring.

**Minn., St. Cloud**—Plans are being made by E. F. Meyer for enlarging the laundry here.

**Mont., Bozeman**—Permit was granted to the Pure Oil Co. of Minneapolis, for construction of their wholesale plant here; W. O. Hinckley, representative of company.

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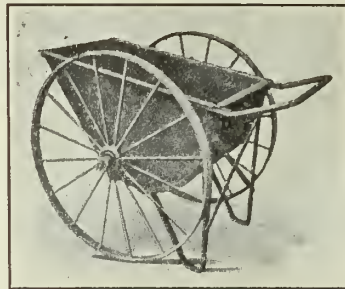
The tremendous enthusiasm shown in the "Big-an-Little" mixer by its users and dealers is indicative of the exceptional advantages which the "Big-an-Little" offers.

Low "Big-an-Little" prices amaze the mixer world. When we announced the exceptional low prices of the "Big-an-Little" the mixer world was astounded. It seemed nearly impossible to build and sell the "Big-an-Little" mixer, built as it is for such prices, but we have done it—and are still doing it—and the success of the "Big-an-Little" is told by the hundreds of letters of praise from its users.

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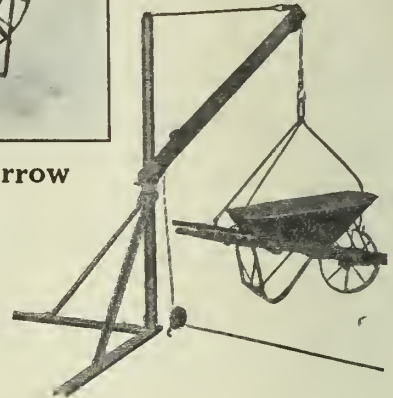
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## CONTRACTORS' NECESSITIES

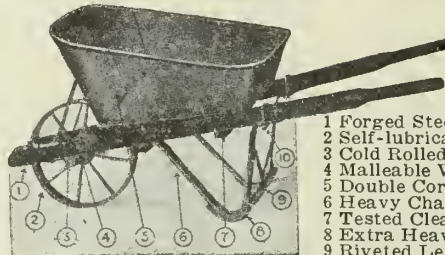


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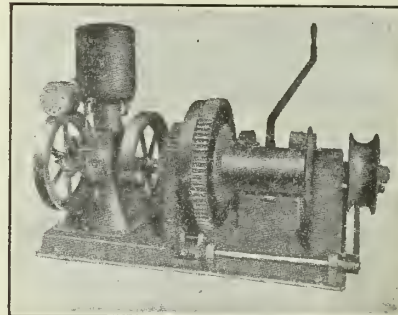


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Capacity 6 cubic feet, thin sloppy concrete; 7 feet dry material. No weak spots. A perfect cart. Weight, 215 lbs., 36-inch wheels.



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- 5 Double Cornered Riveted Trays
- 6 Heavy Channel Steel Legs
- 7 Tested Clear Maple Handles
- 8 Extra Heavy Leg Shoes
- 9 Riveted Leg Braces
- 10 Patented Handle Clamps

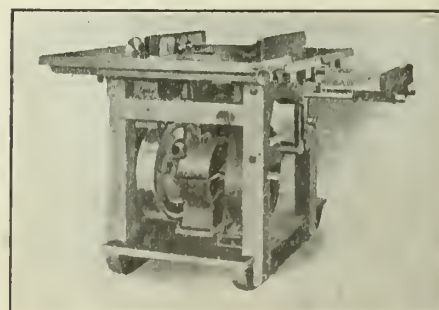
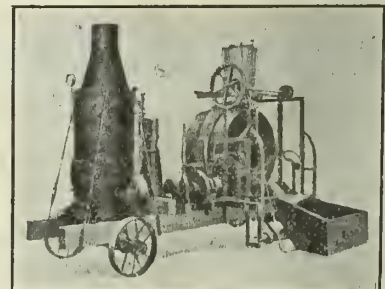


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**Mont., Libby**—The Libby Lumber Co. plans to install a series of lumber mills in Flathead and Lincoln counties, and across the border into Canada.

**Mont., Missoula**—Work has begun on new creamery here; 38x100, modern. Walter S. Custer, manager.

**Neb., Fullerton**—Work has begun on new butter factory, 24x28, frame, modern throughout, five electric motors will be installed by C. N. Philbrick, of the Fullerton Electric Light Co. James R. Russell, J. A. Storch and others, stockholders.

**Neb., Norfolk**—J. W. Creedon has contract for erection of a butter factory.

**Neb., South Sioux City**—Mr. Stamm plans to erect a new planing mill and shop.

**N. D., Beach**—Plans are being discussed for erection of a co-operative flour mill here.

**N. D., Bismarck**—A new co-operative creamery and ice cream plant will be erected.

**N. D., Charlson**—Creamery will be erected here.

**N. D., Hebron**—The state lignite experimental station's main building will be reconstructed; Dean E. J. Balcock, in charge of the station, has submitted plans to board of regents of university.

**\*N. D., Wahpeton**—George Manowskes will establish a factory here to manufacture windmills and farm electric machinery.

**S. D., Bryant**—Fire destroyed the flour mill here; total loss.

**S. D., Sioux Falls**—Remodeling of the old Costello building will begin at once, for Hendee Brush Manufacturing Co.; R. A. Brockvage, member of firm.

**S. D., Sioux Falls**—The L. & A. Baking Co. contemplates erection of a 2-story fireproof plant, plans not completed yet; Henry Levinger, C. W. Anthony and T. M. Bailey, incorporators.

**\*S. D., Toronto**—The Shadewell flour mill burned.

**\*Wis., Avoca**—Ole Arneson has secured contract for erection of a cheese factory at John Day's place.

**Wis., Florence**—The Iron Range Lumber & Cedar Co. will rebuild sawmill at Pentoga, recently burned.

**Wis., Kenosha**—Fire destroyed the large plant of the M. H. Pettitt Malting Co.; estimated loss, \$150,000; fully insured.

**Wis., Ladysmith**—The plant of the Menasha Wooden Ware Co. burned, valued at \$25,000; will rebuild.

**\*Wis., New Richmond**—A cheese factory will be erected here by the Poplar Grove

Cheese Co.; 28x40, concrete foundation. Elias Skiford, president.

**Wis., Star Prairie**—The Poplar Grove Cheese Co. will erect a factory, 28x40, concrete foundation; Elias Skifstad, president, Matt Olson, vice president.

#### BIDS WANTED.

**\*Ont., Fort William**—Bids received Mar. 28 for erection of a crusher plant for the Mt. McKay Produce Co., Ltd., at the base of Mt. McKay. Antwerp & Co., Murray block, Fort William, have plans.

#### CONTRACTS AWARDED.

**\*Wis., Weyerhaeuser**—Contract awarded to Fred H. Conover, of Ladysmith, Wis., for erection of a creamery building.

### Business Buildings

*Notes arranged alphabetically by states.*

**Alta., Edmonton**—Two large stores will be erected here, one by James Ramsey, Ltd., plans being prepared, to cost \$800,000; the other by a big American merchandising company.

**Iowa, Battle Creek**—The old drug store is being raised and a new modern building will be erected.

**Iowa, Boone**—J. H. Roberts is erecting a 2-story, brick building at Keeler, (not a postoffice).

**Iowa, Clarinda**—W. W. Welch, architect, will erect a large brick building, lower floor to be a garage and upper floor offices and flats.

**Iowa, Creston**—Williamson E. Yole, architect, Creston, Iowa, prepared plans for a 3-story, brick and tile warehouse; 28x120, for J. H. Merrill Co., Ottumwa, Iowa; iron joist hangers and fire escapes, common brick, electric lights, skylights, sheet metal pent house, composition patent plaster board, oak and maple floors, yellow pine finish, one electric freight elevator. Bids being taken by architects; close April 1.

**Iowa, Spencer**—F. W. Knight has let contract to Vestergaard & Rounds for erection of a 2-story brick and cement building; brick front, with full basement.

**Iowa, Spirit Lake**—L. E. Francis will erect a 2-story office building, brick.

**Iowa, Spirit Lake**—Spirit Lake National Bank will start work on their new building April 1.

**Iowa, Waterloo**—Negotiations are under way for erection of a 10-story building on a

**Minn., Fairfax**—The Avery Steel & Iron Co. are furnishing the iron work for building being erected by Geo. J. Saffert.

**Minn., Gibbon**—The Avery Steel & Iron Co. are furnishing the iron work for building being erected by Geo. J. Saffert.

**Minn., Mapleton**—Peter Lamp has purchased a site and will erect a large business building, 2-story, brick, front part to be used by bank.

**Minn., Myrtle**—John Belshow will erect a harness shop.

**Minn., Plainview**—Hoffman & Mosse, architects, Rochester, have plans for an office building for James Carley and the telephone company.

**Minn., Redwood Falls**—E. Kuenzil will erect an office building.

**Minn., St. Cloud**—Roland C. Buckley, architect St. Cloud, prepared plans for a 2-story store building, 44x110, brick; cost, \$14,000. Bids received March 14, and close March 25; taken by architect. Steel beams, cast columns and sash, concrete fireproofing, granite cut stone, common, pressed and hollow brick, rolling steel shutters, electric light, sheet metal cornice skylights and ceiling sash and frames, composition roofing, composition plaster, plate, prism, wired and sidewalk glass, maple floors, one freight elevator, 8x10.

**Minn., St. Cloud**—A 3-story brick store building will be erected by Frank Landell, St. Cloud; plans by architect, Roland C. Buckley, St. Cloud; 50x100; cost, \$35,000; bids received April 1 by architect; steel trusses, beams, cast columns and sash, granite cut stone, common, pressed and hollow brick, steam heat, electric lights, sheet metal cornice, skylights and ceiling, sash and frame, composition roof, composition plaster.

**Minn., Sauk Center**—Plans for a 2-story store building, brick, 26x56, have been prepared by architect, Roland C. Buckley, St. Cloud, Minn., owners name withheld; cost, \$4,000. Bids received May 1 by architect; steel beams, concrete fireproofing, granite cut stone, common, pressed, enameled and hollow brick, steam heat, electric lights, composition plaster. Care of architect.

**Minn., Swanville**—Plans prepared by Architect Roland C. Buckley, St. Cloud, for erection of a building for the Russel Brewing Co., of Little Falls, Minn.; brick, 1-story, 36x60, cost \$6,000; steel beams, steam heat, composition plaster; owner takes bids about April 15.

**Minn., Two Harbors**—Work will soon commence on a new bank building for the First State Bank, to be erected by J. H. Lunz

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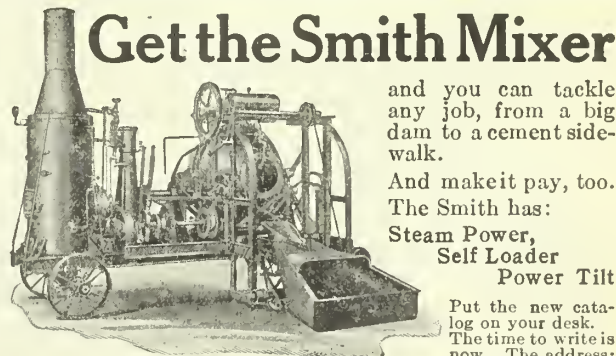
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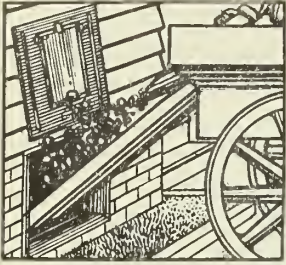
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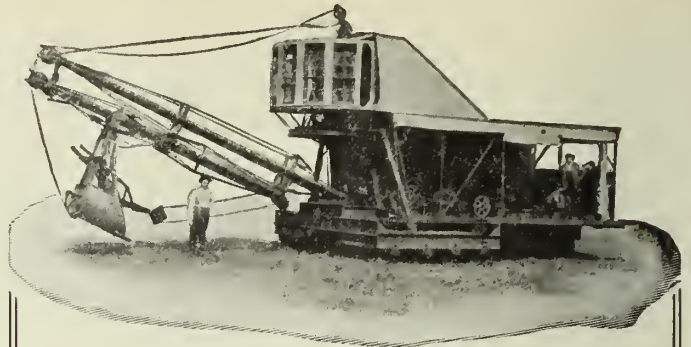
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**Mont., Helena**—Permit was issued to John H. Gelger for a steel covered building with brick front, cost \$2,000.

**Mont., Lewistown**—Excavating for the new postoffice has begun, 50x150, 1-story, full basement; occupied by a large pool hall and bowling alley.

**Mont., Polson**—Nate Hart will rebuild hardware store recently burned, 2-story, concrete.

**Mont., Three Forks**—Messrs. Dwyer & Waldorf, local firm of civil engineers and architects, are preparing plans for a 2-story double store building for Phillip Agrois.

**Mont., Ulm**—The architects have plans about completed for the Largets Mercantile block and bids will be called for soon.

**Mont., Whitehall**—Editor Cole plans to build a new printing office, modern.

**Mont., Whitetail**—The Johnson Hardware Co. will build a new business building soon.

**Neb., Hampton**—The N. Peterson Lumber Co. is erecting a new office building. Gus Eberhard, contractor.

**Neb., Hastings**—The Standard Oil Co. has begun erection of their office building.

**Neb., Minden**—Joseph Pinkham is preparing to erect a brick building.

**Neb., Nebraska City**—A large new warehouse will be erected in rear of L. W. Rodenbrock's store in the spring.

**Neb., Norfolk**—A three-year contract was signed by G. C. Reikman and M. O. Smith for erection of a modern clothing store. J. W. Creedon has contract.

**Neb., Ord**—The Stara building will be rebuilt; recently burned.

**Neb., Scotts Bluff**—H. E. Brown will remodel and enlarge the Evans block, installing new modern front.

**Neb., Sioux City**—C. R. Savidge is considering erection of a new store building.

**Neb., Springview**—Adolph Peterson will erect a modern store building, 25x80, full basement. Lear & Lear will build a brick law office.

**Neb., Talmage**—Work will soon start on brick building for August Hansen.

**Neb., Unadilla**—Anderson & Coddington will erect a 1-story cement block building, 44x100.

**N. D., Fargo**—A. P. Hanson, Litchville. N. D., will build a 1-story, brick block, 25x70. Bids close March 25. No heating.

**N. D., Grafton**—Hebron brick and tile will be used in construction of the Scandinavian American Bank building; cost, \$15,000.

**N. D., Grand Forks**—The Scandinavian

American Bank will erect a building to cost \$130,000; 5-story. Plans about completed.

**N. D., Hastings**—L. M. Oppengaard has commenced erection of a new building to be used as a telephone central and drugs and notion store.

**S. D., Camp Crook**—Fire destroyed the Gallup store building, owned by L. E. Hagstrom; loss \$2,800; insured \$2,300.

**S. D., Columbia**—Fire destroyed a block of business buildings; loss, about \$65,000; insurance, about \$30,000.

**Wis., Madison**—Bruno Klemhertz has taken out permit for erection of a store and American Bank building; cost, \$15,000.

**Wis., Marshfield**—The large general store and warehouse of the Connor Lumber Co. burned, loss \$50,000.

**Wis., Mondovi**—R. S. Lockwood will erect a modern brick business building.

**Wis., Superior**—John A. Kinger has commenced erection of a store building.

**Wis., Superior**—Business district of Solon Springs, recently burned, will be entirely rebuilt of concrete, brick and stone.

#### BIDS WANTED.

**N. D., Fargo**—Bids received until March 24, 12 noon, for erection of a 2-story and basement store building and office, brick, modern, for S. Levin, Fargo. Plans on file at Builders' Exchange, Minneapolis and St. Paul. Separate bids on plumbing, heating and wiring. Check for 5 per cent. A. J. O'Shea, architect, Fargo.

**Wis., Forestville**—Bids received March 19, 6 p. m., for erection of a bank building. Plans prepared by P. T. Benton, architect, Green Bay. Plans with W. H. Bastar, cashier, Forestville.

**Wis., Watertown**—Bids received until 2 p. m., March 25, for building a warehouse and offices for the Watertown Grocery Co.; plans with Architect Alfred C. Class, Milwaukee, Wis., also at Wisconsin National bank, Watertown; check 5 per cent.

**Minn., Fordston**—Contract awarded to John Nylan of Foreston for erection of bank building for Foreston State Bank. Plans by Architect Rolland C. Buckley, St. Cloud, Minn.; 1-story; cost, \$2,175.

**Mont., Great Falls**—Contract awarded by R. S. Ford and the Commercial Trust and Savings Bank to the Bryton Engineering Co. of Portland for erection of a 5-story office and bank building; 100x150, modern; cost, \$250,000.

**Mont., Roundup**—J. H. Danils awarded contracts to J. H. Grant and the Newton Hardware & Implement Co. for erection of a new building; 26 feet wide and 85 feet

deep, brick, cut stone trim, plate glass and marble front; lobby tiled; cost, \$8,000. Work to begin soon.

#### CONTRACTS AWARDED.

**N. D., Williston**—John Heffernan has let contract to E. B. Link to build an extension of 40x33½ feet to the Heffernan building, 2-story and basement.

**S. D., Humboldt**—Hahn & Duncan have let contract to Kincaid & Tenant, of Sioux City, Iowa, for construction of a large store building, 105-foot frontage, 80 feet deep, brick, modern; cost, \$20,000; to be completed by June 15.

## Residences

*Notes arranged alphabetically by states.*

**Iowa, Charles City**—George Blake will erect a modern residence soon. Plans by Mortimer Cleveland, of Waterloo, Iowa.

**Iowa, Clarion**—F. E. Cole has plans for erection of a 6-room, \$6,000 residence at Eagle Grove.

**Iowa, Council Bluffs**—Calvin Hafer, of the Hafer Lumber Co., is building a modern residence; 2-story.

**Minn., Redwood Falls**—New residences are to be erected by C. O. Borg, N. F. Dripps, O. W. Grapp, Dr. Inglis, M. Lauterbach, Wm. Rosendahl, J. P. Cooper, Glenn Gold, M. A. Elbright, Geo. Davis, Wm. Rice, Mrs. McDonald, Al Drogasch, M. Wolverson, John Drury and W. P. Rice.

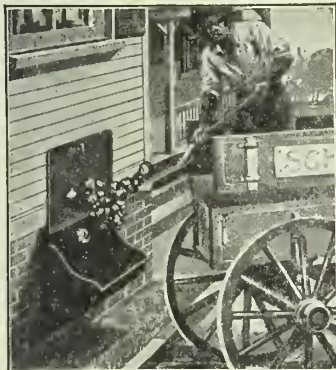
**Minn., Redwood Falls**—Plans by Albert Schippel, architect, Mankato, Minn., for a 2-story, frame residence, 30x14; cost, \$5,000; 2-family house, furnace heat, plumbing, water supply with gasoline engine and pressure tank, laundry room and separator room; wood shingle roof, composition patent plaster, oak finish, bids taken Mar. 24, by owner, Mrs. Emma H. Greene, Redwood Falls. Address owner, R. R. No. 4.

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**Minn., Winona**—G. O. Halvorson will erect a modern dwelling in Bratsberg, (not a postoffice). Contractor Nelson, of Rushford, has contract.

**Neb., Kearney**—J. E. Fowler has contract for erection of a 7-room house for George Harris, on W. 26th st.



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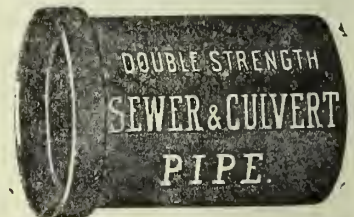
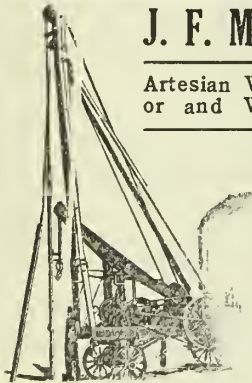


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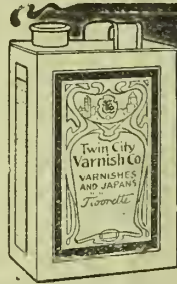
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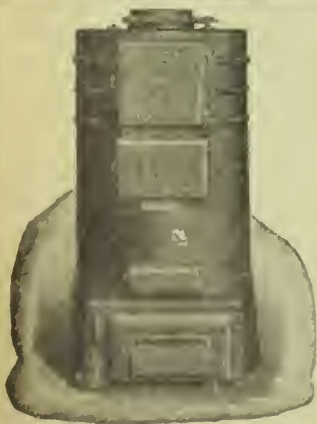
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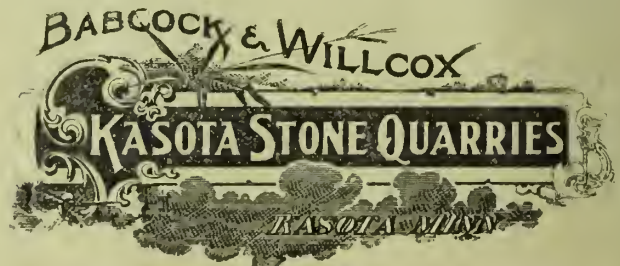


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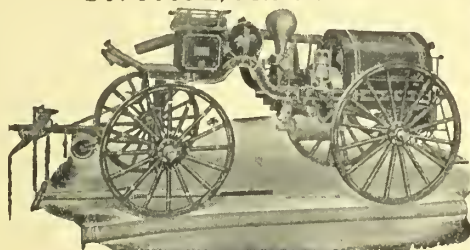
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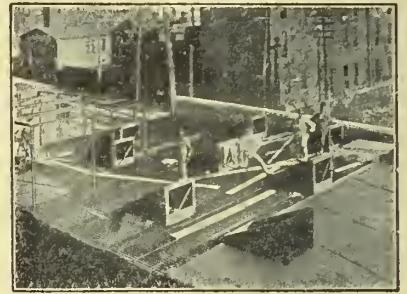
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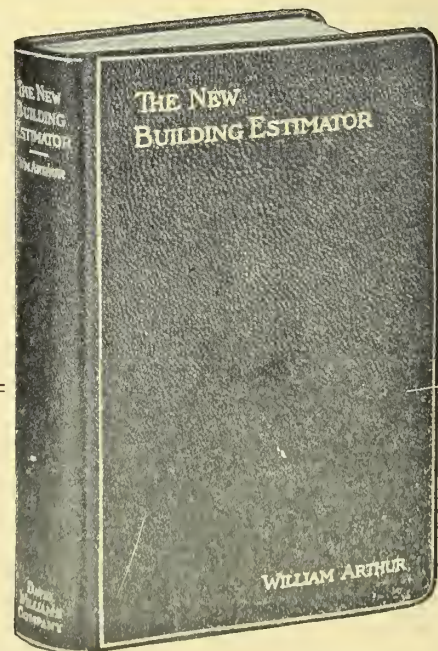
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Number 17

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Dunlop-Moore Co., Duluth..... 43	Minnesota Fama Stonewood Co., St. Paul-Minneapolis..... 28	Twin City Tile & Marble Co., Minneapolis..... 24
Edward Edinger Co., Cedar Rapids, Ia..... 42	Minnesota Manufacturers Association..... 34	Twin City Varnish Co., St. Paul..... 44
Enterprise Iron Works, Albert Lea, Minn..... 43	Minnesota Roofing & Cornice Works, St. Paul..... 34	Union Fibre Co., Winona, Minn..... 20
Erickson, Nels, Minneapolis..... 22	Minneapolis Gas Fixture Co., Minneapolis..... 37	Universal Portland Cement Co..... 20
Eureka Machine Cos, Lansing, Mich..... 32	A. Moorman & Co., St. Paul, Minn..... 32	Van Kannel Revolving Door Co., St. Paul..... 40
Farnham Printing & Stationery Co..... 11	W. K. Morison & Co., Minneapolis..... 26	Vogtenthaler Co., E. J., Dubuque, Ia..... 35
Fidelity & Deposit Co., Minneapolis-St. Paul..... 34	National Fireproofing Co., Minneapolis-Chicago..... 6	Warner Hardware Co., Minneapolis..... 0
Flint Brick Co., Des Moines, Ia..... 24	Nat. Mfg. & Supply Co., Minneapolis..... 40	Waterloo Engine Co., St. Paul..... 4
Flour City Ornamental Iron Works..... 18	National Window Shade Co., Minneapolis..... 26	Waterloo Register Co., Waterloo, Ia..... 40
Fowler & Pay, Mankato-Minneapolis..... 41	New Ulm Stone Co., New Ulm, Minn..... 35	Well Co., Mankato, Minn..... 37
Gardner Hardware Co., Minneapolis..... 6	Northern Electrical Co., Minneapolis..... 42	Wilkins & Co., Charles, Minneapolis..... 24
M. J. Grady Fixture Mfg., Minneapolis..... 34	Northern Insulating Co., St. Paul..... 36	Wisconsin Land & Lmbr Co. Hermannville, Mich..... 4
	Northern Theatre Supply Co., Minneapolis..... 32	Wishart, & Co. R. S., Minneapolis..... 31
	North Star Varnish Co..... 44	Wolf, L. P. St. Paul..... 20
		Youngstown Steel & Iron Co., Youngstown, O..... 22



## NOTE

For street address of firms mentioned here, consult their advertisements which can readily be found by referring to the alphabetical list on page three.

### ARCHITECTURAL MODELING.

K. F. Lott & Co..Mpls. and St. Paul, Minn.

### ARCHITECTS' SUPPLIES.

Minneapolis Blue Prtg. Co....Mpls., Minn.  
Rogers & Co.....Minneapolis, Minn.

### ASBESTOS AND MAGNESIA PRODUCTS.

H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
Krieger-Jamar Co.....Duluth, Minn.

### ARTESIAN WELLS.

J. F. McCarthy.....Minneapolis, Minn.  
S. Swenson Artesian Well Co.....  
.....Minneapolis, Minn.

### BANKS.

Northwestern National Bk....Mpls., Minn.

### BANK AND STORE FIXTURES.

Flour City Ornamental Iron Works.....  
.....Minneapolis, Minn.  
A. Moorman & Co.....St. Paul, Minn.  
Northwestern Fixture & Cabinet Co.....  
.....Minneapolis, Minn.

### BOILERS.

Andrews Heating Co....Minneapolis, Minn.  
Associate Mfrs. Supply Co....Mpls., Minn.  
Central Supply Co.....Minneapolis, Minn.  
Crane & Ordway Co.....St. Paul, Minn.  
Hasey Heating Co.....Minneapolis, Minn.  
McDonnell Boiler & Iron Works.....  
.....Des Moines, Iowa

### BONDS—SURETY.

Hood & Penney Co.....Minneapolis, Minn.  
Wm. B. Joyce & Co....Mpls-St. Paul, Minn.  
Fidelity & Deposit Co..Mpls.-St. Paul, Minn.

### BRASS GOODS.

Central Supply Co.....Minneapolis, Minn.  
National Mfg. & Supply Co....Mpls., Minn.

### BRICK AND TILE.

American Brick & Tile Co..Mason City, Ia.  
Arnegard, Ole.....Hillsboro, N. D.  
Barber Asphalt Paving Co..Des Moines, Ia.  
Belt Line Brick Co.....Minneapolis, Minn.  
Boukind-Carlson Brick Co.Crookston, Minn.  
Chaska Brick & Tile Co.....St. Paul, Minn.  
Crookston Brk. & Tile Co..Crookston, Minn.  
Dickinson Brick Co.....Dickinson, N. D.  
Flint Brick Co.....Des Moines, Ia.  
Hebron Fire & Pressed Brick Co.....  
.....Hebron, N. D.  
Hydraulic Press Brk. Co.Minneapolis, Minn.  
Johnson, Jackson & Corning Co.....  
.....Minneapolis and St. Paul, Minn.  
Mason City Brick & Tile Co.Mason City, Ia.  
National Fireproofing Co.....  
.....Minneapolis, Minn., and Chicago, Ill.  
Northwestern Fireproofing Co..Mpls., Minn.  
A. C. Ochs Brick & Tile Co.....Springfield, Minn.  
Red River Valley Brick Corporation.....  
.....Grand Forks, N. D.  
Shakopee Cement Lime Co..St. Paul, Minn.  
Sioux City Brick & Tile Works.....  
.....Sioux City, Ia.  
Standard Salt & Cement Co..Duluth, Minn.  
St. Paul Lime & Cement Co.St. Paul, Minn.  
Twin City Brick Co..St. Paul-Mpls., Minn.

### BRIDGES.

American Bridge Co....Minneapolis, Minn.  
Corrugated Bar Co.....St. Paul, Minn.  
Crown Iron Works Co.....Minneapolis  
Minneapolis Steel & Mach. Co..Mpls., Minn.  
N. W. Concrete Steel Co.Minneapolis, Minn.  
St. Paul Foundry Co.....St. Paul, Minn.

### BUILDING MATERIAL.

Barber Asphalt Paving Co..Des Moines, Ia.  
Baxter Sash & Door Co.....Duluth, Minn.  
N. B. Cagley & Co.....Minneapolis, Minn.  
Carr-Cullen Co.....Minneapolis, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
H. W. Johns-Manville Co.....  
.....Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co..Mpls. and St. Paul, Minn.  
Landers-Morrison-Christensen Co.....  
.....Minneapolis, Minn.  
Osgood & Blodgett Mfg. Co..St. Paul, Minn.  
Shakopee Cement Lime Co..St. Paul, Minn.  
The Northwestern Lime Co..St. Paul, Minn.  
Standard Salt & Cement Co..Duluth, Minn.

### BUILDERS' SPECIALTIES.

Dunlop, Moore Co.....Duluth, Minn.  
Palme & Nixon Co.....Duluth, Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
Thomson-Williams Co.....Duluth, Minn.  
Waterloo Register Co.....Waterloo, Ia.

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### CEMENT.

Atlas Portland Cement Co., New York,  
N. Y., Chicago, Ill., and Minneapolis, Minn.  
Carney's Cement Works....Mankato, Minn.  
Fowler & Pay....Mpls. and Mankato, Minn.  
Landers-Morrison-Christensen Co.....  
.....Minneapolis, Minn.

N. W. Lime Co....Mpls. and St. Paul, Minn.  
Shakopee Cement Lime Co..St. Paul, Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
Speakes Lime & Cement Co..Superior, Wis.  
St. Paul Lime & Cement Co..St. Paul, Minn.

### CELLS, STEEL.

Avery Steel & Iron Co..Minneapolis, Minn.  
Crown Iron Works Co.....Minneapolis  
Dicbold Safe & Lock Co....St. Paul, Minn.  
Minneapolis Steel & Mach. Co..Mpls., Minn.

### CEILINGS, STEEL.

Canton Steel Ceiling Co..Minneapolis, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### CHAIRS, OPERA.

Northern Theatre Supply Co..Mpls., Minn.

### COAL CHUTES.

Crown Iron Works Co.....Minneapolis  
Enterprise Iron Works....Albert Lea, Minn.  
Gardner Hardware Co.....Minneapolis, Minn.  
Majestic Furnace & Fdy. Co..Mpls., Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
Waterloo Register Co.....Waterloo, Ia.

### COLD STORAGE PLANTS.

Chas. A. Berger.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....  
.....Minneapolis, Minn., and Milwaukee, Wis.

### COLUMN CLAMPS.

O. F. Symons & Co.....Minneapolis, Minn.

### CONCRETE CONSTRUCTION.

Corrugated Bar Co.....St. Paul, Minn.  
C. A. P. Turner.....Minneapolis, Minn.

### CONCRETE MACHINERY.

Atlas Engineering Co....Milwaukee, Wis.  
Nels Erickson.....Minneapolis, Minn.  
Eureka Machine Co.....Lansing, Mich.  
G. E. Ingersoll & Co.....St. Paul, Minn.  
Koehring Machine Co.....  
.....Minneapolis, Minn., and Milwaukee, Wis.  
Standard Salt & Cement Co..Duluth, Minn.  
Jaeger Machine Co.....Columbus, Ohio  
Raymer Hardware Co.....St. Paul, Minn.  
Lansing Co.....Lansing, Mich.  
Northwestern Iron & Steel Works.....  
.....Eau Claire, Wis.

### CONCRETE REINFORCING BARS.

Inland Steel Co.....St. Paul, Minn.  
Corrugated Bar Co.....St. Paul, Minn.  
N. W. Concrete Steel Co.Minneapolis, Minn.  
Minneapolis Steel & Mach. Co..Mpls., Minn.

### CORNICES.

Griffin & Boehme.....St. Paul, Minn.  
F. V. Haverland.....Minneapolis, Minn.  
Minnesota Roofing & Cornice Works.....  
.....St. Paul, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.  
St. Paul Roofing, Cornice & Ornament Co.  
.....St. Paul, Minn.

### CORRUGATED IRON, ETC.

Corrugated Bar Co.....St. Paul, Minn.

### CONCRETE REINFORCING.

Inland Steel Co.....St. Paul, Minn.  
N. W. Concrete Steel Co.Minneapolis, Minn.

### CONTRACTORS.

N. B. Cagley & Co.....Minneapolis, Minn.

### CONTRACTORS' SUPPLIES AND MACHINERY.

Decker Hardware Co.....St. Paul, Minn.  
O. F. Symons & Co.....Minneapolis, Minn.

### CULVERTS.

Victor H. Leebj.....Fargo, N. D.  
Bjesanz Stone Co.....Winona, Minn.  
Klauser Mfg. Co.....Dubuque, Ia.  
Minneapolis Steel & Mach. Co..Mpls., Minn.

### CRUSHED STONE.

Fowler & Pay.....Mankato, Minn.  
Kettle River Co.....Minneapolis, Minn.  
Klauser Mfg. Co.....Dubuque, Ia.  
Mantorville Stone Co.....Mantorville, Minn.  
New Ulm Stone Co.....New Ulm, Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
Wildell Co.....Mankato, Minn.

### CREOSOTING.

Republic Creosoting Co., A. E. Larkin  
.....Minneapolis, Minn.

### DEADENING MATERIAL.

H. W. Johns-Manville Co.....  
.....Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co....St. Paul, Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
Union Fibre Co.....Winona, Minn.

### DECORATIONS.

Odin J. Oyen.....La Crosse, Wis.

### DITCHING MACHINES.

Dix Machine Co.....Stillwater, Minn.

### ELECTRICAL ENGINEERING.

Minneapolis Electric Equipment Co.....  
.....Minneapolis, Minn.  
Northern Electrical Co..Minneapolis, Minn.

## RATES

For three lines in directory, giving name, address and goods handled, \$25 for 1 year, 52 times.

### SAMPLE AD

Great Northern Brick Company  
Pressed Brick and Drain Tile  
Minneapolis, - - - Minn.

### ELECTRIC MOTORS AND SUPPLIES

H. W. Johns-Manville Co.....  
.....Minneapolis, Minn., and Milwaukee, Wis.  
Minneapolis Electric Equipment Co.....  
.....Minneapolis, Minn.  
Sterling Electric Co.....Minneapolis, Minn.

### ELECTRIC SPECIALTIES

Minneapolis Electric Equipment Co.....  
.....Minneapolis, Minn.

### ELEVATORS AND ENCLOSURES.

Kimball Bros. Co.....Council Bluffs, Ia.  
Gust Lagerquist.....Minneapolis, Minn.  
Lee & Hoff Mfg. Co.....St. Paul, Minn.

### ELEVATOR CABS.

N. W. Fixture & Cabinet Co..Mpls., Minn.

### ENGINEERS—CONTRACTORS.

Power Engineering Co..Minneapolis, Minn.

### ENGINEERS.

Oscar Claussen Engineering Co.....  
.....St. Paul, Minn.  
Charles L. Pillsbury.....Minneapolis, Minn.  
L. P. Wolff.....St. Paul, Minn.  
M. B. Stone.....Minneapolis, Minn.  
W. P. Cowles.....Minneapolis, Minn.

### FIRE ESCAPES.

Crown Iron Works Co.....Minneapolis  
Des Moines Structural Steel Works.....  
.....Des Moines, Ia.  
Davenport Mach. & Fdy. Co..Davenport, Ia.  
Minneapolis Steel & Mach. Co..Mpls., Minn.

### FIREPROOF DOORS.

Thorp Fireproof Door Co..Minneapolis, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### FLUE LINING.

Northwestern Lime Co.....St. Paul, Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
St. Paul Lime & Cement Co..St. Paul, Minn.

### FIRE PROTECTION APPARATUS.

Waterous Engine Works Co..St. Paul, Minn.  
H. W. Johns-Manville Co.....  
.....Minneapolis, Minn., and Milwaukee, Wis.

### FIREPROOFING DOORS AND SHUTTERS.

Selden Roofing & Manufacturing Co.....  
.....Minneapolis, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### FLOORING.

American Torgoment Flooring Co.....  
.....Minneapolis and (Midway) St. Paul, Minn.  
Fama Stonewood Co.....St. Paul, Minn.  
H. W. Johns-Manville Co.....  
.....Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co..Mpls. and St. Paul, Minn.  
Osgood & Blodgett Mfg. Co..St. Paul, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.  
I. Stephenson Co.....Wells, Mich.  
Thomson-Williams Co.....Duluth, Minn.

### FURRING.

Corrugated Bar Co.....St. Paul, Minn.

### GAS AND ELECTRICAL FIXTURES.

Herber Chandelier Co..Minneapolis, Minn.  
Mpls. Electric Equipment Co..Mpls., Minn.  
Minneapolis Gas Fixture Co..Mpls., Minn.  
Sterling Electric Co.....Minneapolis, Minn.

### GLASS.

American Luxfer Prism Co....Chicago, Ill.  
Minnesota Art Glass Co.....St. Paul, Minn.  
Pittsburgh Plate Glass Co.....  
.....Minneapolis and St. Paul, Minn.

### GRAVITY CARRIER.

Minnesota Manufacturers' Association....  
.....North St. Paul, Minn.

### HARDWARE TRIMMINGS.

Decker Hardware Co.....St. Paul, Minn.  
Gardner Hardware Co.....Minneapolis, Minn.  
Raymer Hardware Co.....St. Paul, Minn.  
Waterous Engine Co.....St. Paul, Minn.  
Warner Hardware Co.....Minneapolis, Minn.

### HEAT REGULATORS.

Andrews Heating Co.....Minneapolis, Minn.

### HEATING AND VENTILATING.

Andrews Heating Co.....Minneapolis, Minn.  
Associate Mfrs. Supply Co.....  
.....Minneapolis, Minn.  
Hasey Heating Co.....Minneapolis, Minn.  
H. Kelly & Co.....Minneapolis, Minn.  
National Mfg. & Supply Co..Mpls., Minn.  
Charles Wilkins & Co..Minneapolis, Minn.

### HOSE.

Gardner Hardware Co.....Minneapolis, Minn.  
W. K. Morison & Co.....Minneapolis, Minn.

### HOTELS.

Radisson Hotel.....Minneapolis, Minn.



## NOTE

For street address of firms mentioned here, consult their advertisements, which can readily be found by referring to the alphabetical list on page three.

### INSULATING MATERIAL.

H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co.....St. Paul, Minn.  
Union Fibre Co.....Winona, Minn.

### INSURANCE.

Fidelity & Deposit Co.....  
..Minneapolis and St. Paul, Minn.  
Fred L. Gray Co.....Minneapolis, Minn.  
Hood & Penney Co.....Minneapolis, Minn.  
W. B. Joyce Co., Mpls. and St. Paul, Minn.  
Minneapolis Insurance Agency.....Mpls., Minn.

### IRON AND STEEL WORK.

Avery Steel & Iron Co.....Minneapolis, Minn.  
Clinton Bridge Works.....Clinton, Ia.  
Crown Iron Works.....Minneapolis, Minn.  
Davenport Machine & Foundry Co.....  
..Davenport, Ia.  
Des Moines Structural Steel Works.....  
..Des Moines, Ia.  
Inland Steel Co.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
N. W. Concrete Steel Co., Minneapolis, Minn.  
Oberg & Stainer.....Minneapolis, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.  
St. Paul Foundry Co.....St. Paul, Minn.  
E. J. Voggenthaler Co.....Dubuque, Ia.  
Youngstown Iron & Steel Co.....  
..Minneapolis, Minn.

### JOIST HANGERS.

Avery Steel & Iron Co.....Minneapolis, Minn.  
Crown Iron Works Co.....Minneapolis, Minn.  
Davenport Machine & Foundry Co.....  
..Davenport, Ia.  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
Northwestern Concrete Steel Co.....

### LANDSCAPE ARCHITECTS.

B. Terrell Hoyt.....Minneapolis, Minn.

### LIME.

Fowler & Pay.....Mpls. and Mankato, Minn.  
Landers-Morrison-Christenson Co.....  
..Minneapolis, Minn.  
Gust Lillyblad.....Red Wing, Minn.  
Shakopee Cement Lime Manufacturing Co.....  
..St. Paul, Minn.  
Speakes Lime & Cement Co., Superior, Wis.  
St. Paul Lime & Cement Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
The Northwestern Lime Co., St. Paul, Minn.

### MANTELS—GRATES.

Drake Marble & Tile Co.....  
..Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
N. W. Marble & Tile Co., Minneapolis, Minn.  
Twin City Tile & Marble Co., Mpls., Minn.

### MARBLE, TILING, MOSAIC.

Drake Marble & Tile Co.....  
..Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
N. W. Marble & Tile Co., Minneapolis, Minn.  
Thomson-Williams Co.....Duluth, Minn.  
Twin City Tile & Marble Co., Mpls., Minn.

### METAL SHINGLES.

Milwaukee Corrugating Co., Milwaukee, Wis.

### METAL AND WIRE LATH.

Corrugated Bar Co.....St. Paul, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.  
Johnson, Jackson & Corning Co.....  
..Minneapolis and St. Paul, Minn.  
Northwestern Lime Co.....St. Paul, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.  
Thomson-Williams Co.....Duluth, Minn.

### MILLWORK.

Baxter Sash & Door Co.....Duluth, Minn.  
Osgood-Blodgett Mfg. Co.....St. Paul, Minn.

### MUNICIPAL CASTINGS.

Davenport Mach. & Fdy. Co., Davenport, Ia.

### OFFICE FURNITURE.

Farnham Printing & Sta. Co., Mpls., Minn.

### ORNAMENTAL IRON AND WIRE.

Builders Iron Works Co.....  
..Minneapolis and St. Paul, Minn.  
Crown Iron Works Co.....Minneapolis, Minn.  
Davenport Machine & Foundry Co.....  
..Davenport, Ia.  
Demeules Bros.....Minneapolis, Minn.  
Flour City Ornamental Iron Works.....  
..Minneapolis, Minn.  
Midway Ornamental Iron Works.....  
..St. Paul, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
St. Paul Foundry Co.....St. Paul, Minn.

### PAINTS, FILLERS, ETC.

Gardner Hardware Co.....Minneapolis, Minn.  
Ricketson Mineral Paint Works.....  
..Milwaukee, Wis.

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### PACKINGS AND HOSE.

H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.

### PAVEMENT.

Barber Asphalt Paving Co., Des Moines, Ia.  
Barrett Mfg. Co.....New York, N. Y.

### PICTURE MACHINES.

Northern Theatre Supply Co., Mpls., Minn.

### PIPE AND BOILER COVERING.

H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.

### PIPE—CAST IRON.

American Cast Iron Pipe Co., Minneapolis

### PLASTER—WALL.

H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
Plymouth Gypsum Co., Fort Dodge, Ia.  
Shakopee Cement Lime Co., St. Paul, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

### PLASTERING—ORNAMENTAL.

Brioschi-Minuti Co.....St. Paul, Minn.

### PLASTIC ORNAMENTS.

Brioschi-Minuti Co.....St. Paul, Minn.  
K. F. Lott & Co., Mpls. and St. Paul, Minn.

### PLUMBING AND GAS FITTING

Charles Wilkins & Co., Minneapolis, Minn.

### PRINTING.

Farnham Printing Co., Minneapolis, Minn.

### PRISMS.

American Luxfer Prism Co., Chicago, Ill.  
Crown Iron Works Co., Minneapolis

### PLUMBING AND HEATING JOBBERS.

#### POWER PLANTS.

Associate Mfrs. Supply Co., Mpls., Minn.  
Central Supply Co., Minneapolis, Minn.  
National Mfg. & Supply Co., Mpls., Minn.

### RADIATORS.

Associate Mfrs. Supply Co., Mpls., Minn.  
Central Supply Co., Minneapolis, Minn.

### REVOLVING DOORS.

Van Kannel Revolving Door Co.,  
..St. Paul, Minn.

### ROOFING GRAVEL AND ASPHALT.

Griffin & Boehme.....St. Paul, Minn.  
H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
Krieger-Jamar Co.....Duluth, Minn.  
Minnesota Roofing & Cornice Works.....  
..St. Paul, Minn.  
Northwestern Lime Co., St. Paul, Minn.  
Scribner-Libby Co., St. Paul, Minn.  
Selden Roofing & Manufacturing Co.,  
..Minneapolis, Minn.  
Thomson-Williams Co., Duluth, Minn.  
R. S. Wishart & Co., Minneapolis, Minn.

### ROOFING—METAL.

Badger Steel Roofing & Corrugating Co.,  
..La Crosse, Wis.  
Duluth Corrugating & Roofing Co.,  
..Duluth, Minn.  
Gardner Hardware Co., Minneapolis, Minn.  
La Crosse Steel Roofing & Corrugating Co.,  
..St. Paul, Minn.  
St. Paul Roofing, Cornice & Ornamental  
Co., St. Paul, Minn.  
R. S. Wishart & Co., Minneapolis, Minn.

### ROOFING MATERIAL.

Barrett Mfg. Co., New York, N. Y.  
Corrugated Bar Co., St. Paul, Minn.  
John Leslie Paper Co., Minneapolis, Minn.  
H. W. Johns-Manville Co.,  
..Minneapolis, Minn., and Milwaukee, Wis.  
McClellan Paper Co., Minneapolis, Minn.

### ROOFING AND SIDING—IRON AND STEEL.

Gardner Hardware Co., Minneapolis, Minn.  
Inland Steel Co., St. Paul, Minn.

### RUBBER SHINGLES.

Standard Salt & Cement Co., Duluth, Minn.

### RUST-RESISTING IRON SHEETS.

Inland Steel Co., St. Paul, Minn.

### SAFES.

Diebold Safe & Lock Co., St. Paul, Minn.  
Heilig & Elliott Co., Minneapolis, Minn.  
Herring-Hall-Marvin Safe Co.

### SAND AND GRAVEL.

Standard Salt & Cement Co., Duluth, Minn.

### SEWER PIPE AND DRAIN TILE.

Ingalls Stone Co., Bedford, Ind.  
Iowa Sewer Pipe & Tile Co., Des Moines, Ia.  
Northwestern Lime Co., St. Paul, Minn.  
Plymouth Clay Products Co., Fort Dodge, Ia.  
Red Wing Sewer Pipe Co., Red Wing, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

## REMEMBER

Announcements on this page are read by architects, contractors, and the building trade generally, all over the Northwest and produce excellent results.

### SHEETS—IRON AND STEEL.

Gardner Hardware Co., Minneapolis, Minn.  
Inland Steel Co., St. Paul, Minn.

### SIDEWALK LIGHTS.

American Luxfer Prism Co., Chicago, Ill.  
Crown Iron Works Co., Minneapolis  
K. F. Lott & Co.,  
..St. Paul and Minneapolis, Minn.

### SLATE BLACKBOARDS.

Twin City Tile & Marble Co.,  
..Minneapolis, Minn.

### SKYLIGHTS.

Krieger-Jamar Co., Duluth, Minn.  
St. Paul Roofing, Cornice & Ornament Co.,  
..St. Paul, Minn.  
R. S. Wishart & Co., Minneapolis, Minn.

### STEEL—BARS.

Inland Steel Co., St. Paul, Minn.  
Twin City Tile & Marble Co., Mpls., Minn.

### STONE.

Babcock & Wilcox.....Kasota, Minn.  
Biesanz Stone Co., Winona, Minn.  
Also Building Material, Gravel for Roof-  
ing, Sand and Gravel.  
Breen Stone Co., Kasota, Minn.  
Edw. Edinger Co., Cedar Rapids, Ia.  
Ingalls Stone Co., Bedford, Ind.  
Kettle River Co., Minneapolis, Minn.  
Duluth Cut Stone Co., Duluth, Minn.  
Mantorville Stone Co., Mantorville, Minn.  
New Ulm Stone Co., New Ulm, Minn.  
Pioneer Granite Co., St. Cloud, Minn.  
Sauk Rapids Granite Co.,  
..Sauk Rapids, Minn.  
Wm. Penn Stone Co., Minneapolis, Minn.  
The Widell Co., Mankato, Minn.

**STRUCTURAL SECTIONS AND SHEETS.**  
Inland Steel Co., St. Paul, Minn.

### TANKS—STEEL.

American Bridge Co., Minneapolis, Minn.  
Central Supply Co., Minneapolis, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.

### TELESCOPIC HOISTS.

Avery Supply Co., Minneapolis, Minn.

### TERRA COTTA.

Johnson, Jackson & Corning.....  
..Minneapolis and St. Paul, Minn.  
K. F. Lott & Co.,  
..Minneapolis and St. Paul, Minn.  
Ranson, Birtram W., Minneapolis, Minn.

### VARNISHES.

Gardner Hardware Co., Minneapolis, Minn.  
North Star Varnish Co., Minneapolis, Minn.  
Twin City Varnish Co., St. Paul, Minn.

### VALVES.

Central Supply Co., Minneapolis, Minn.  
Crane Co., Minneapolis, Minn.  
Crane & Ordway Co., St. Paul, Minn.

### VAULTS.

Diebold Safe & Lock Co., St. Paul, Minn.  
Heilig & Elliott Co., Minneapolis, Minn.  
Herring-Hall-Marvin Safe Co.  
Also Vault Doors, Vault Furnishings and  
Filling Equipment.

### VENTILATING SYSTEMS.

Hackney Ventilating Co., Minneapolis, Minn.  
Charles Wilkins & Co., Minneapolis, Minn.

### WALL BEDS.

Northwestern Bedding Co., St. Paul, Minn.

### WATERPROOFING.

Gardner Hardware Co., Minneapolis, Minn.  
H. W. Johns-Manville Co.,  
..Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co., St. Paul, Minn.

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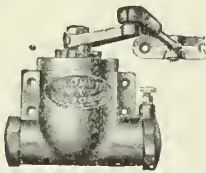
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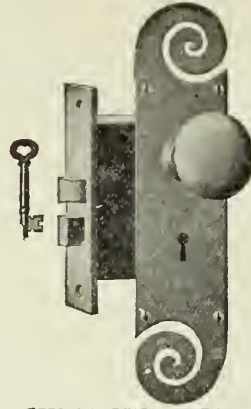
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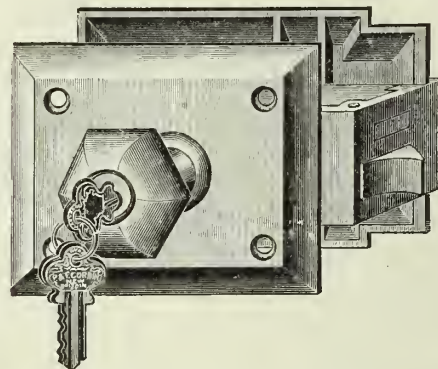
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# The IMPROVEMENT BULLETIN

OFFICIAL ORGAN OF THE MINNESOTA STATE ASSOCIATION OF BUILDERS EXCHANGES

VOLUME XLVII.

SATURDAY, MARCH 28, 1914

NUMBER 17



## EDITORIAL



O. L. COLBURN, Editor

### NOW IS THE TIME.

A New York architect, in Minneapolis recently, told a number of citizens and officials whom he met here, in the course of business, that legislation limiting the height of buildings should be enacted at once, if at all. Delay would defeat the movement.

This architect for many years has acted on investigating bodies which have tried to effect laws for limiting the height of buildings in New York. Their work has been checked in every instance by the owners' of downtown property in the districts where skyscrapers were being built or might be built. The argument of these owners, which prevailed was that a limiting law would prevent them from taking the same advantage of the opportunity for increased income which their competitors had taken. In Minneapolis there are two or three buildings of twelve stories and one about to be built which will be twenty stories. An ordinance providing for a twelve-story limit, it is intimated, might pass now.

### DEFINITE SPECIFICATIONS.

It seems that the time for definite specifications has not arrived. Interesting arguments for them are found in the American Architect but they seem rather in the realm of the ideal than the practical. In America it is still the day of the "or equal" specification; and the condition obtains for a number of cogent reasons. The natural sense of fair play and liberty among United States citizens is against the definite specifications as a fixed, invariable means of instructions from the architect to the contractor. We have yet to note a general desire on the part of architects to dictate to that extent. In the liberal west we like the spirit behind the phrase, "or equal."

### WHY A BIG CONTRACT WENT OUT OF TOWN.

Keen interest in the Minneapolis building field was aroused by the letting of the contract for the largest downtown structure for several seasons, the 20-story bank and office building for the First National Bank and Soo railroad. The outcome giving the work to a Chicago contracting firm, caused sharp disappointment. Naturally it was recalled that the commission to plan the building was given to an out-of-town architect. Some oil was poured on the troubled waters by the announcement that it was stipulated in the contract with the Chicago construction company that contracts were to be given to Minneapolis business men, whenever possible. St. Paul fared somewhat better in the construction of its skyscraper, now building, the Merchants' National, since the general contract went to a local company, though the building was planned by a Chicago architect.

We are informed that the lowest Minneapolis bid for the general contract of the Soo-First National was about \$50,000 (considering time and cash) higher, than that of the Chicago bidder; and that an effort to still save the contract for Minneapolis resulted in concessions by the Minneapolis bidder and some of the owners until they were only \$12,500 apart. Owners who would make no further concessions settled the question in favor of the Chicago bidder.

This letting recalls that of the Great Northern station, Minneapolis, to a Chicago company; plans by a Chicago architect. The announcement was made that Minneapolis would be favored as much as possible in the letting of the sub-contracts. They were distributed as follows: Fireproofing material, Minneapolis; stone, Minnesota; steel, Minneapolis; erecting the steel, Seattle; ornamental iron, Minneapolis; plastering, Minneapolis; setting stone and brick work, Minneapolis; glass, Minneapolis; terra cotta, Minneapolis agency, Chicago company; marble and tile, Minneapolis; sheet metal and tile roof, Chicago; hardware, Minneapolis; plumbing, St. Paul; electrical work, Minneapolis; heating and ventilating, Chicago; mill work, Minneapolis; mechanical engineering,

Chicago; civil engineering, Chicago; excavation, Minneapolis; elevator contract for twenty-one electric freight and passenger, Chicago (firms eligible in Minneapolis and St. Paul); art marble, Chicago.

### TECHNICAL EDUCATION PROGRESS.

Minneapolis will have, as soon as possible, the industrial school provided for in the Dunwoody will, a great modern, complete institution. The fact shows a conviction in the minds of the best and most successful business men and a general conviction which assure steady progress in furnishing this sort of education. Few modern activities tend more to give thrift and stability to a community or country.

At the recent meeting of the Western Builders' Exchange of Canada, C. S. Burgess, professor of architecture at the University of Alberta, gave an address on education and the building trade, in which he said: "In Germany, which seems to be much less rich than England in the production of the inventive craftsman, the systematic establishment of technical education has produced direct results which have placed her industrially in the front of modern progress. The progress of Germany is not due to untutored geniuses, but to industrious, painstaking study. It ought to be noticed, too, that the inventive craftsmen of England are no product of ignorance or happy luck. They are the product of a great system of education not book education, perhaps, but that industrial education resulting from centuries of the apprenticeship system and a long tradition of high standards of craftsmanship. The government of Alberta—not the ministers of the day, but the sentiment of the people—are all for the best of education, but that the building trades may flourish, you, the builders and manufacturers, may set your minds diligently to face the problem of industrial efficiency within our borders, and the root of that problem is the training of a capable productive class. Technical schools are being established. To me, too, it seems that these schools in their present state are hopelessly, almost shockingly inadequate. Two or three schools for three hundred thousand people! he helpless infant, however, will grow to be a man. Gentlemen, if you will turn your thoughts from time to time in that direction you will be working at the root of the problem that is going to make or mar the future of all trades and arts in this province; that will make or mar your sons; that may build up the future homes of our province. And that work is one of the surest means of advancing our country and the future of humanity."

### OPENING AND CLOSING THE DOOR.

The administration at Washington illuminated with magnanimity is exerting its power to liberate business and restore the free play of enterprise. While it is striving to open the door of opportunity to the citizen, advocates of municipal ownership are trying to close it. It never was so difficult as now to select a field of investment wherein business men may not expect public ownership competition sooner or later, through a combination of reform and politics. Yet the ambition to engage in business is still considered good. We all want our towns, cities, country to be alive, active, thriving. We commend further study of the whole question to the advocates, in Iowa, of the municipal ownership bill, that provides for municipal control and operation of practically all public service utilities as well as the ownership thereof and will be introduced before the next state legislature by business men of Des Moines. It has been announced that a municipal ownership league is being formed to stir up interest in the bill and present it to the assembly. The proposed statute is more in the interest of creating a law whereby municipal ownership of telephone systems in Iowa will be possible. But it will include street railways, warehouses, cold storage plants, transfer companies and all other businesses of a public service nature. It will also strengthen the law enabling cities to buy waterworks and gas and electric lighting systems. Frank Kellogg, of St. Paul, "trust buster," said this week in a speech: "What the United States needs is intelligent regulation, not a crusade." Many business reformers are crusaders. As long as one man or a combination of men do business the right way, government should not enter the field.



# How Contractors Can Use Steel Forms

C. E. MacArthur, chief engineer of the Blau Steel Construction Co., read a valuable paper before the American Concrete Institute. It follows, reprinted from the Contractor, of Chicago:

There is no single piece of plant equipment used by the contractor which lends itself more to the completion of good concrete work than the forms. We very often find a greater amount of neglect of them than of any other part of the plant. Going back over past projects where concrete has been used, with the aid of forms, we find a great waste of time and materials and are convinced that not enough thought is given to the proper design and handling of this part of the work. With a great many contractors today, forms are the last things thought of. An item covering them is to be found in their estimates, but many times no real knowledge of the subject is displayed in making up this item.

There are many pieces of concrete construction which do not require special forms, but can be done with almost any kind of makeshift. But a piece of work requiring forms to be moved and reused a number of times is important enough to warrant the contractor looking into the most economical method of handling this item.

It is the duty of the designing engineer to study the most economical method of building the structure he designs. By doing this he could greatly reduce his cost, for it is the ability of being able to work his plant to the best advantage that enables the contractor to make his lowest figure and do his best work.

As I go over many designs I cannot help criticising the designing engineer for paying so much attention to the theory of design to the neglect of practicability. I do not want him to give up his deep-rooted principles and formulas, nor to part with his originality; but if he would pay more attention to the standardization of details and the duplication of parts, he would greatly reduce the general cost of the structure he has designed.

I could cite many cases where the cost of forms could have been reduced had the designs been studied a little more closely with a view of reducing each construction item to a minimum.

The designing engineer should keep in mind that his value to his client is his ability to design a staple structure on the most economical scale, and it is the duty of the form designer to point out to him and to design for him a form whose use can be duplicated so often that it enters into the construction of his work as the most important tool.

In a recent work on concrete costs the author says that, "the greatest trouble met with by the estimator is the lack of knowledge of what is a fair cost of the labor, and especially of the comparative costs of different parts of the same work." He also observes that "the variations in form costs and the difficulty in estimating them are apt to play havoc with estimates and determine the amount of profit, or frequently of loss, in the building of reinforced concrete structures."

We find few contractors or estimators who can give accurate costs of the forms on a great amount of their past work. It is a hard proposition to convince a contractor that steel forms are the ones to use when the first cost of the form is invariably higher than wood forms, unless he has given a great deal of attention to accurate form costs and knows that the life of a wood form cannot be compared with that of steel.

There is no doubt that the form manufacturers are to blame in many cases for the adverse opinion of steel forms. The reason is that they have been overly anxious to place steel forms on every concrete job that comes along and have therefore placed a great many forms on jobs that did not warrant the use of steel.

House building with an all-steel form is today out of the question. Good steel forms have been developed for constructing light walls, such as are found in house construction, but to set up a form and pour the house in one operation is so far from being a reality that it seems almost a joke. There is no field of construction where individuality is displayed more than in building a house, and for that reason a machine-made house is not yet a commercial success. Past performances have not shown that steel forms can be used successfully in the construction of workmen's houses unless the work is carried on in stages by a limited supply of forms.

The steel form has become one of the most important adjuncts to the concrete plant and no contractor can suc-

cessfully conduct all of his work without giving serious consideration to its use. No single piece of apparatus has made a greater impression on the contracting world. Many articles relating to tunnel construction, aqueduct building, sewer and concrete costs are being published, with only a passing glance or no reference at all to the steel forms which no doubt played the most important part in their construction. A few hard, cold facts must be understood before all branches of the concrete contracting industry will be benefited:

First, uniformity of concrete design, of which I have already spoken. Second, the development of standard designs of steel forms for various classes of work, such as sidewalk construction, columns, beams and girders, walls, sewers, etc., which can be leased to the small contractor at a low rental price or sold outright to the contractor whose business warrants their purchase on work at hand or who desires to place them in his equipment as a part of his plant.

The rental method of placing forms at the disposal of the contractor is the most profitable to the manufacturer as well as to the contractor, as it allows the manufacturer to get good profits on his first cost of production by releases, and it enables the contractor to get the use of the forms for his work at a much lower figure than if he purchased them outright.

The third fact is that the contractor should content himself with the design of form which can be had from the manufacturer under a guarantee that it will do the work required of it and let the smaller details of construction pass, as he is very apt to impose conditions which will greatly increase the form cost, but which will be of no real value to his work.

A case of some note happened a few years ago in New York state on a job involving millions, where the engineer of the contractor conceived the idea that the forms already on the work were not strong enough and could not be handled at a low enough cost. The settlement of the matter resulted in the removal of the first set of forms and the replacing of same by heavier forms made by the same form builder at a cost to the contractor of several thousand dollars in addition to the cost of the first set. How did it result? The second and heavier set of forms were used and moved at a cost above the cost of moving the first set, and the first set was transferred to another section of this same project and used successfully by another contractor.

An impression seems to prevail among contractors who have not used steel forms that they should be erected and handled without visible labor, and that they can be moved without thought or energy. I grant that if the ease of handling steel forms was not greater than wood forms they would not be used in many cases. But there are other reasons why steel forms should be used; an important one is the life of a steel form. A form to be of any value must cast as good concrete the last time it is used as it did the first time. It is almost impossible to get many moves from wood forms before they begin to show their age on the surface of the concrete, or before they require additional work to keep them in shape. Not so with steel forms. A good, well designed steel form is good for several hundred moves. I have seen steel forms after two hundred moves cast a surface so smooth that it would reflect light.

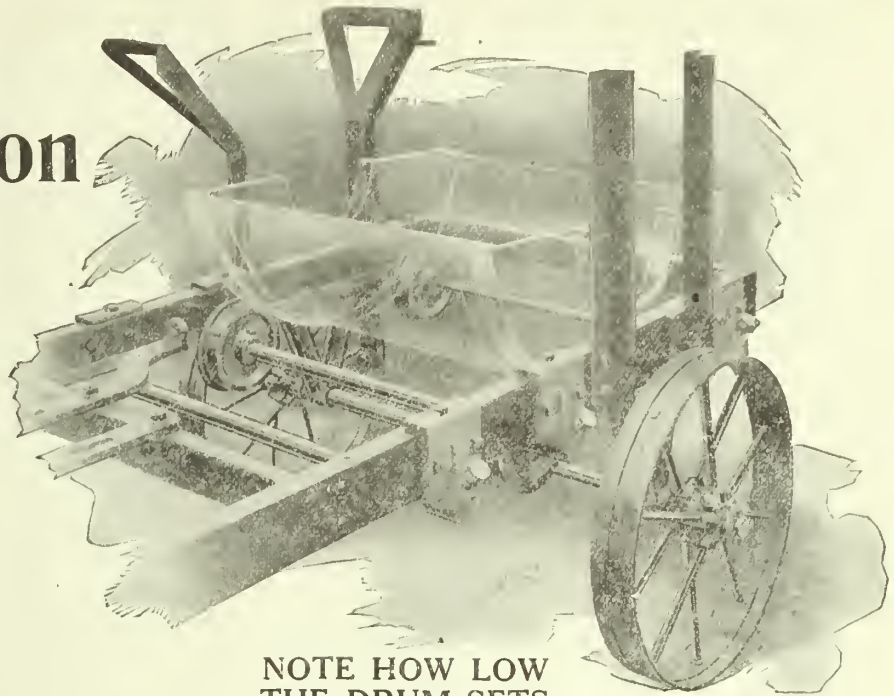
The designers of steel forms must keep in mind that it is simplicity, rigidity and economy of handling that make their product of value.

Simplicity implies that the forms must be capable of being moved and handled with least amount of skilled labor, and by the least amount of any kind of labor. This can only be accomplished by making all parts interchangeable, so that no searching for special parts is required. This applies more to forms that are placed on the market as a standard, such as sewer forms, house forms, sidewalk forms and forms of like nature.

Rigidity forgotten has caused many a form to give way under its load and ruin the concrete. It matters not how simple the design is, if the form is too light it is of little or no value. Wall and house forms must be able to take all pressures placed upon them. With the rods spaced at intervals the pressure must be evenly distributed so that no bulging of the plates occurs. This can only be gotten by having the tie rod receive its load from some important member which in turn received its load from the plate. In case of sewer forms of the arch design, they can be lighter per surface foot than any other type of form, but not so light as to distort under load.



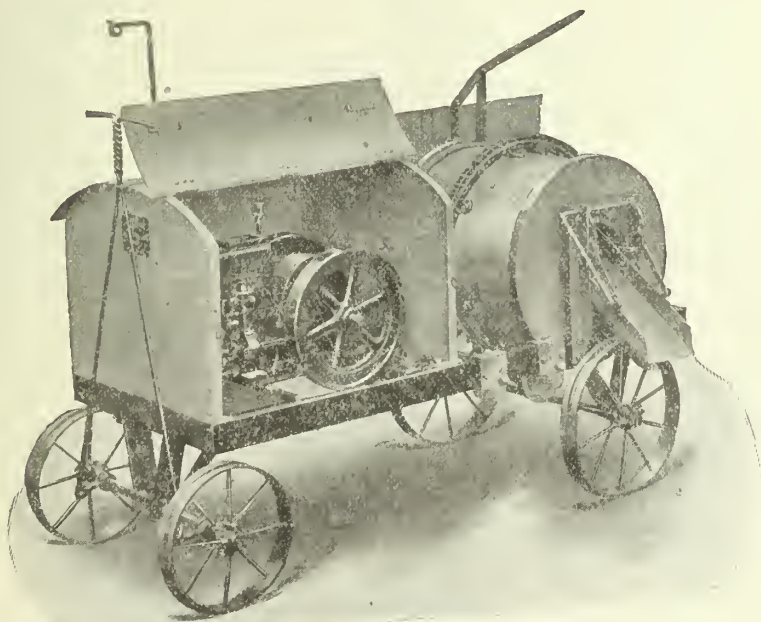
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# PERSONAL AND GENERAL NEWS.

## Doings of the Northwest this Week Boiled Down for Busy Readers

### PERSONAL AND GENERAL.

The North Star Varnish Co. of St. Paul, Minn., has issued a neatly printed price current pamphlet covering the many varnishes and dryers manufactured by this standard concern. In architectural varnishes the different varieties of the well known Buckhorn brand are described and prices quoted.

Stockholders of the Economy Boiler Co. of Willmar, Minn. held an enthusiastic meeting. Reports were made showing that the building is completed, the machinery on its way. Contracts have been made that insure the continuous running of the plant as soon as it is started.

C. W. Lidster, contractor, Sioux City, Iowa, is in new offices at 510 Water st.

New officers of Helena, Mont. Builders' Exchange: President J. B. Lewis; first vice president, A. B. De Kay; second vice president, John Kain; treasurer, A. J. McKennon. The election of a permanent secretary was deferred.

Master painters and decorators of Western Canada held their fifth annual convention at Edmonton. Amos Desilets of Edmonton was elected president; E. M. Cooper, Saskatoon, vice president; W. H. Clark, Winnipeg, secretary-treasurer. Wholesale and supply men were admitted to associate membership. This resolution was adopted: "That this convention place on record a request that the bulk contractor will consider the necessity of handing over painting and decorating contracting to any master painter connected with the Master Painters' association or Builders' Exchange." The association will meet at Saskatoon next year. Delegates included: Thomas Lyons, W. C. Clark, E. Guertin, J. W. Marley, C. B. Fathers and W. A. Parker, all of Winnipeg; Amos Desilets, C. D. W. Gale, A. C. Bailey, H. A. M. Newman, W. E. Maund, C. G. Stewart, W. H. McMahon, E. McNeill, Wm. McAfee, A. J. Boyd, F. L. Schindler, T. H. Clark and T. Mills of Edmonton; John M. Cruse and J. M. Cooper, Saskatoon, C. B. Raider, Brandon.

The Alberta Provincial association of Builders Exchanges held its annual convention at Medicine Hat. There was a very fair attendance of delegates, and a successful meeting resulted. The following officers were elected for the ensuing year: President, D. Silvester, Calgary; vice president, H. J. Goode, Lethbridge; directors, Robert Grant, Edmonton, M. T. Chamberlain, Calgary, J. Glenister, Lethbridge, and G. E. Hotson, Medicine Hat.

A new contracting company in Iowa City, Iowa, known as the Western Construction Co., with F. R. Hoar as president, A. W. Hixson as vice president and F. C. Young as secretary and treasurer was organized recently. The president is a member of the firm of Hoar & Parkinson, building contractors, which will be dissolved at the completion of their present work, the Iowa City Masonic Temple and the school house at Hampton. The vice president is professor of mining engineering and metallurgy in the state university. The secretary and treasurer is now on the civil engineering faculty in the university. The company will do general contracting, including buildings, sewers and paving. Mr. Hoar, who is an engineering graduate of the state university, will have charge of the building operation and Mr. Young of the paving and sewer construction.

A. E. Champlin, of Champlin & Nanson, plumbing, heating and electrical contractors, at Fargo, N. D., attended the seventh annual convention of the Minnesota Electrical association at the Radisson hotel, Minneapolis, last week. Mr. Champlin also attended the Minnesota Master Plumbers' annual meeting at Duluth, where he noted an unusually good program was well carried out. Annual meetings can lag and sag, or move right along, according to forethought and management. The Master Plumbers' was a convention, Mr. Champlin, observed, which had snap, go and unusual interest.

General Manager R. F. Pack of the Minneapolis General Electric Co. addressed the Minnesota Electrical association annual meeting on, The Public and Public Service Corporations.

Dane Prairie Telephone Co., incorporated; Dane Prairie township, Ottertail county, Minn.; building, buying and operating telephone lines; capital \$2,000; incorporators: Albert Bjorgum, Chas. D. Drews, John J. Fossen, Odin Back, Arnt Huseby and Tom Tvedt.

Whitney Bros., Stack & Co., incorporated, Duluth, Minn.; real estate and contracting; capital \$50,000; incorporators: Wm. A. Whitney, Edward H. Whitney and James R. Stack.

Green Prairie Rural Telephone Co., incorporated, Green Prairie, Minn.; contracting, buying and operating telephone

lines; capital \$1,500; incorporators: Thos. A. Kraus, Julius Pirk, Rug. Anderson, E. Erickson, Wm. F. Siegal and C. O. Hultgren.

Eureka Ore Co., Duluth, Minn.; general mining, smelting and refining ores and minerals; capital \$50,000; incorporators: Arthur Howell, M. E. Riley and C. L. Judd.

Cuyuna Apex Land & Iron Co., Hibbing, Minn.; mining, smelting and refining ores and minerals and dealing in lands, stocks, bonds; capital \$200,000; incorporators: Rupert Swinerton, Daniel Tukenbrand and Rhys E. Carter.

Aurdal Rural Telephone Co., Otter Tail county, Minn., township of Aurdal; operating rural telephone lines; capital stock \$4,000; incorporators: Johan E. Boer, Andrew E. Braaten, Alfred Bergrud and O. G. Torgerson.

Range Motor Co., Biwabik, Minn.; dealing in automobiles and machinery; capital \$50,000; incorporators: Z. C. Hinkley, C. H. Schuster and I. R. Boase.

P. W. Sharp Printing & Manufacturing Co., Thief River Falls, Minn.; manufacturing coin boxes and office supplies and novelties; capital \$50,000; incorporators: P. W. Sharp, H. C. Underwood, Math. Barzen and Rasmus Oen.

Angora Lumber Co., incorporated, Grove City, Minn.; dealing in lumber, timber lands, etc.; capital \$10,000; incorporators: B. Bresden, L. E. Larson, Alfred Peterson.

W. D. Stewart, owner of the St. Paul Lime & Cement Co., announces a change in the name of his midway establishment from the Dana Warehouse Co. to W. D. Stewart. The location, Snelling and Iglehart, is in the heart of the midway district. He has added a complete line of building specialties to his regular line of building materials.

O. W. Gremmert, Walnut Grove, Minn., has re-engaged in contracting and the cement business.

The Albert Lea Construction Co.'s annual business meeting showed business had grown and the outlook gratifying. Annual election resulted as follows: Anton Larsen, treasurer and manager; S. P. Swenson, assistant manager; E. V. Spoon, president; John Larsen, vice president; George Larsen, secretary.

Charles Stayman, vice president of the Fort Dodge National Bank, Fort Dodge, Iowa, wants designs and prices at once on vault doors, steel lining, safety deposit boxes and filing fixtures for vaults for the bank.

Beckwall & Widell of Mankato, Minn., have removed from 439 Belgrade to 209 N. Front st.

Jerome Miller, contractor, Oshkosh, Wis., has become a member of the firm of C. R. Meyer & Sons Co., of that city, general contractors.

E. N. Rosengren, who has been with the Hydraulic Press Brick Co., has joined the staff of the Twin City Brick Co. St. Paul office.

Hugh L. Cooper, member American Society of Civil Engineers, who after the completion of the Mississippi river dam at Keokuk, Iowa, last summer went with his family for a long European tour, arrived in New York on March 13. During his seven months' absence Mr. Cooper traveled over 30,000 miles by automobile through various parts of Europe and Northern Africa.

Herbert J. Kuelling, commissioner of highways of Milwaukee county, Wisconsin, has been elected president of the Wisconsin Highway Commissioners' Association.

Articles of incorporation were filed yesterday afternoon in the office of the county clerk and recorder by the Montana Mill & Elevator Construction Co., Billings, Mont. The company is capitalized at \$25,000 and its purpose will be to erect and operate mills and elevators in various parts of the state. The life of the corporation is to be forty years and its principal place of business will be Billings.

Philip Wesch, G. H. Root and Curtis C. Oehme are the incorporators and directors.

J. E. Gray and Reginald LeBron have formed the firm of LeBron & Gray Electric Works at Omaha, Neb., 116 S. 13th st. Mr. Gray formerly conducted the Gray Electrical Works.

The Mandan, N. D., Construction Co., contractors and builders, organized last week by Charles Kidd, Fred Mitchell and Nick Ressler. They have begun operations by bidding on several Morton, Oliver and Mercer county improvements, including the New Salem school building, the Hebron brickquitting plant, a Hebron residence, several business blocks and dwellings in the newly opened territory along the north line. Mr. Kidd was for seventeen or eighteen years employed as manager of the Mandan Mercantile Co.'s construction department. They expect to incorporate very soon and



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The Improvement Bulletin

choose their officers, after which they will establish an office in Mandan to handle their business which they intend to extend over the whole West Slope. Among the jobs now on hand are a 2-story, brick residence for a Hebron merchant and a couple of store buildings in Golden Valley.

E. Miller, a contractor living at 3719 Park av., Minneapolis, announced his candidacy for representative in the thirty-third legislative district, comprising the seventh and thirteenth wards. Mr. Miller is a brother of Attorney General Andrew Miller of North Dakota.

J. Stewart and C. A. Sorenson, connected with various lumber manufacturing at the head of the lakes for several years, have established a new manufacturing concern at Duluth, to be known as the Stewart-Sorenson Sash, Door & Manufacturing Co. The firm will occupy a building at 131 W. 2d st. The first named member of the new firm was associated with the Scott-Graff Lumber Co. for twelve years and with the Anderson-Gow Co. for nine years. Mr. Sorenson was foreman with the Scott-Graff Co. for fourteen years. The company will do a general woodwork manufacturing business and handle a line of builders' supplies.

The Belleville, Wis., Advancement Association has been organized among the business men and an active campaign started to secure factories. Officers of the association are: C. B. Minch, president; E. A. Arnold, secretary; E. R. Adamson, treasurer. A committee is in conference with officers of the Valecia Condensing Co., of Madison, and there are prospects for the erection of a plant at Belleville.

## ARCHITECTS AND ENGINEERS.

An engineering experiment station has been created by the board of regents of the University of Wisconsin. This organization will be established in the college of engineering and will have general charge of the testing and research work of the college.—Engineering Record.

The members of the Fort Madison, Iowa, board of education met with eight architects at the Lee County Bank building in discussion of the new public school to be erected there. It was arranged that each representative would be given a hearing of one hour before the board but somewhere the machinery went agog and they all got in together. Consequently the session was one which lasted from 9 a. m. to 5 p. m., and the discussion was highly instructive, several interesting debates between the representatives resulting. The architects present were: A. H. Conn, Cedar Rapids; H. E. Ratcliffe, Keokuk; James H. Craddock, Omaha; Ernest Koch, Ottumwa; F. Harrison of Proudford, Bird & Ransom of Des Moines; Rudolf Markgraf, Kansas City; George H. Paye, Carthage, Ill; J. Beadle, Galesburg.

## CEMENT AND CONCRETE.

Harry L. Shank, recently of Kearney, Neb., has engaged in the cement business at Red Oak, Iowa.

The chemist of Northwestern State Portland Cement Co., Mason City, Iowa, lectured at Hutchinson, Minn., on cement manufacturing with slides to an audience filling Rex theater.

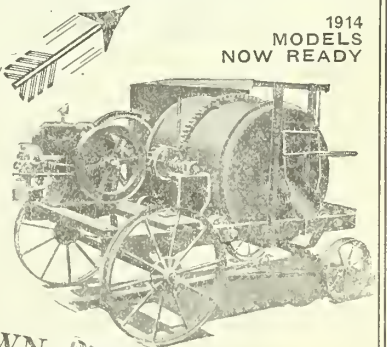
Concrete pavements at Sheboygan, Wis., are giving good satisfaction, cost of Plymouth pavement, \$1.23 a yard, Fond in the cement business at Red Oak, Iowa.

T. O. Peacock of the Trident Cement Co., Three Forks, Mont., has returned from the Pacific Coast, where he went on a business trip.

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## REINFORCED CONCRETE FLAT SLAB CONSTRUCTION

(Patented)



Exterior view of the thoroughly modern, fireproof garage, with display room of the Oldsmobile Co., Hennepin av., Minneapolis; a 2-story, 3-slab building in which the Turner mushroom system of reinforced concrete construction was used. The building is 51x150. Bell, Tyrie & Chapman, architects, Minneapolis. J. L. Robinson & Co., general contractors.

The recent decision of the Hon. Chas. A. Willard in the U. S. District Court of Minneapolis in the Drum vs Turner concrete patent case sets at rest pretended claims of Mr. Turner's imitators.

All infringers are being rigidly prosecuted, as Mr. Turner has in his employ at the present time five of the best known and most able firms of patent attorneys in the United States

**OWNERS, PROTECT YOUR OWN INTERESTS** by demanding that your flat slab designers furnish an infringement bond of an amount equal to the cost of your building. Demand a bond for a five-year term and make yourselves safe.

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speed elevators, incinerator plant, master and secondary clock systems, automatic fire alarm system, circulating refrigerated drinking water system in every guest room, construction cost 43 cents per cubic foot.

Has the most popular and up to date dining room in the Twin Cities.

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(A tribute to the Scandinavian)

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(A tribute to the American)

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# CONSTRUCTION & CONTRACT NEWS

OF SPECIAL VALUE TO ENGINEERS, CONTRACTORS, BUILDERS AND MANUFACTURERS

## MINNEAPOLIS, MINN.

Office: 912 Lumber Exchange. Phones: N. W. 3902; T.-S. 2194. Please telephone news not later than Wednesday.

Items marked with asterisk not in daily sheets.

J. P. Vos, 801 Marshall st. NE., new front, 1-story plaster veneer addition and alterations to store; Matt Theisen, builder .....	2,500
J. B. Peterson, 2901-11 S. James av., concrete foundation for brick apartments; P. J. Sonner, builder.....	2,000
L. S. Donaldson Co., 73-75 S. 6th st., interior alterations; H. N. Leighton Co., builders.....	2,500
L. S. Donaldson Co., 623-625 Nicollet av., 1-story steel, tile and copper passage way addition to store; H. N. Leighton Co., builders.....	1,500
J. A. Sullivan, 723 University av. N. E., 2-story frame dwl; P. C. Giguere & Son, builders.....	3,600
Henry J. Schwarg, 4836 Clinton av., 1-story frame dwl.....	1,100
Otto Karpe, 3434 Dupont av. N., 1½-story plaster veneer dwl.....	1,500
I. L. Cheney, 3500-02 Minnehaha av., 2-story frame duplex.....	1,860
Edward Hahn, 1701-03 Crystal Lake av., 2-story brick stores (2) and flats (2) .....	8,000
J. A. Madden, 4045 S. Lyndale av., 2-story plaster veneer dwl.....	4,000
Thomas M. Hollick, 534 N. Knox av., 1-story frame dwl.....	2,400
Ida M. Smith, 3321 Columbus av., alterations changing dwl. into duplex	1,000
Gottfried Blyberg, 3133 21st av. S., 1½-story plaster veneer and shingle dwl.; August Asp, builder.....	3,100
James E. Fischer, 4037 S. Bryant av., 2-story plaster veneer duplex, Anderson-Nelson Construction Co., builders .....	6,250
W. G. Iverson, owner and builder, 4025 E. 45th st., 1½-story frame dwelling	1,500
Geo. L. McClelland, 1512 E. 52d st., 1-story frame dwelling.....	1,500
John Friedman, 1923-25 S. Dupont av., 3-story brick flats.....	12,000
John Friedman, 1919-21 S. Dupont av., 3-story brick flats .....	12,000
John Friedman, 2037-09 S. Aldrich av., 3-story addition to flat building....	2,000
E. M. Olmstead, 3956 Beard av. S., 1-story plaster veneer dwelling; H. E. Rossman, builder .....	1,250
John Smuder, 4825 Xerxes av. S., 1-story plaster veneer dwelling.....	1,900
Crown Iron Works Co., 1229 Tyler st. NE., 2-story brick office and pattern shop; C. W. Lunquist Co., builders.	14,000
Hulda A. C. Anderson, 4011 2d av. S., 2-story frame addition and finish dwelling; Main & Haglund, builders	4,600
A. G. Jerde, 4052 Harriet av., 1½-story plaster veneer dwelling and garage; A. Albinson, builder.....	4,000
H. J. Nicholls, 2888 Irving av. S., 1½-story brick and plaster veneer dwelling; A. Albinson, builder.....	3,600
Berg Bros., 2924 27th av. S., 1-story brick sheet metal works, D. C. Bennett, builder .....	4,000
W. M. Erickson, 4134 Wentworth av., 1½-story frame dwelling; Gust Newstrom, builder .....	2,800
Peters Home Building Co., 4023 Blaisdell av., 1½-story dwelling; Peters Home Building Co., builders.....	2,200
Christ Johnson, 3511 Snelling av., 1½-story frame dwelling, P. O. Holmer, builder .....	2,000
Cole & Rollefson, 3122 Hiawatha av., 1½-story plaster veneer dwelling;	1,800
Axel E. Johnson, builder.....	7,000
Peter Wolin, 3320 5th av. S., 2-story brick veneer flats (4) .....	2,500
Magnus Swenson, 4008 Chicago av., 1½-story frame dwl; Swenson & Co., builders .....	3,000
E. G. Walton Agency, 3323 N. Washington av., 1½-story frame dwl....	
J. & W. A. Elliott Co., Lumber Exchange, has contract for apartment building, 25 apartments; 3-story and basement, 42x88; \$30,000; 91 N. 17th st., private plans, for Sulflow & Maas Co., 215 Andrus building; cut stone to G. A. Anderson & Co., 2312 26th av. S., tar and gravel roofing and sheet metal	

work to Henseler & Naused, 1324 Marshall av., steam heating and plumbing to Bjorkman Bros., 712 S. 10th st.; painting to E. M. Drisko, 457 Temple court; general contractors desire bids on electric work and plastering.

Plans for dwelling furnished by Glenn L. Saxton, architect, Plymouth block; T. C. Rosenthal, 263 N. Merrill, Fond du Lac, Wis., frame, \$1,500; P. H. Flatler, 604 Arbustus, Rhinelander, Wis., frame, \$3,200; Youmans Lumber Co., Winona; two cottages, frame, \$6,100; C. M. Schmidt, Northwestern road, Tracy, Minn., \$3,200; C. T. Mechler, Mankato, Minn., frame bungalow, \$3,500; Harry Heidel, Mankato, rough cast, \$3,500; Joyce Lumber Co., Estherville, Iowa, frame, rough cast, \$3,500.

W. H. Arrell & Co., general contractors, Palace building, will build the new plant of the Kienzle & Merrick Manufacturing Co., ornamental iron and brass works, 1214 S. 3d st.; 14 bidders; sub-contracts; steel, Kalman; cement, John F. McDonald Lumber Co.; crushed rock, McLeod Stone Co.; lumber, Decker Co.; metal sash, Charles Houston, Plymouth building; plans by W. P. Cowles, Flour Exchange; work started.

The Sterling Electric Co., of Minneapolis, Minn., has secured the contract for the electric wiring in the new 4-story Loeb Arcade building. Installation consists of wiring for 2,000 amperes for lighting and 500 amperes for power; L. S. & S. Loeb, Duluth, owners; Ottenheimer, Stern & Reichert, Chicago, architects; Victor F. V. De Brauwere, resident architect.

\*Plans for church, 33d av. S. and 43 st., have been prepared by E. J. Donahue, architect, Gilfillan block, St. Paul; frame, 44x120, 1-story and basement, cement floor in basement, steam heat, concrete foundation, maple floor, structural iron, ornamental plastering; Rev. O. J. Rowan, pastor, St. Joseph's church, 353 Iglehart av., St. Paul.

Northwestern Fireproofing Co., Kasota block, using the Swanson tile, have the contract for the Aaron Stern building, at Wahpeton; Bowers Bros., Fargo, general contractors; also the contract for fireproofing the Hudson building, Duluth; Smith & Vokes, general contractors, 403 Exchange Building, Duluth.

\*A commercial garage will be built at Central and University av., owners name withheld; plans by Peter J. Linhoff, architect, Germania Life building, St. Paul, who will take bids; 2-story, electric elevator; trusses, plate glass front, plumbing, heating, wiring, 66x160.

S. J. Bowler, architect, Boston block, has furnished plans for two apartment buildings, 1919-1925 S. Dupont, for John Friedman, stone foundation, steam heat, modern, 50x74, 3-story, brick and 6 flats each; cost \$24,000, day labor.

Bids received until April 6, 11 a. m., by county auditor for removing old bridge 69, and building new; road 6, Plymouth township, surety bond; also bids to same time, received for bridge 115, road 6, removing and rebuilding.

Alterations by Armour Co. in the wholesale branch, 219 N. 5th st., will include changes to make it a concrete building; new plumbing and ventilating, skylights, 2-inch cork over slab on roof; bids being taken this week.

Thomas M. Hollick is building a frame dwelling, modern, \$2,400, 534 N. Knox; 1½-story, plaster veneer dwelling, 24x35, 3133 21st av. S., being built for Gottfried Blyberg, August Asp, contractor, 731 9th av. S.

Plans have been furnished by Glenn L. Saxton, architect, Plymouth block, for a brick veneer flat building at 3021 Holmes, 40x42; \$7,000; four hot water boilers; Frank Gustafson, contractor.

\*A. N. Olson has prepared plans for remodeling dwelling, 31st and Pillsbury; 2-story, 42x22, frame, concrete foundation, shingle roof, wood cornice, rough cast, furnace, parquet floors.

C. W. Lundquist Co., 1604 N. 6th, has general contract for the Crown Iron Works' addition, 1229 Tyler NE., 50x36, and 48x85, 2-story brick, office and pattern shop, stone foundation, \$14,000.

Kees & Colburn, architects, Donaldson

block, have prepared plans for the interior alterations at 73 and 75 S. 6th, for L. S. Donaldson Co., H. N. Leighton Co., contractors, 127 S. 10th.

Plans were given out this week for figures on the new Saxe picture theater in 7th st.; Chapman & Magney, architects, Essex building; steel erected and in place by Crown Iron Works.

D. C. Bennett, architect and builder, 3323 Humboldt av. S., is erecting a sheet metal plant, 2924 27th av. S., 1-story brick, concrete foundation, for Bergh Bros., 36x80, \$4,000.

Anderson-Nelson Construction Co. has contract for the duplex, 4037 S. Bryant, plaster veneer, modern, for James G. Fischer, hot Bryant av. S., hot water heat, \$6,250.

A. O. Jerde, 2623 E. 38th, is building a dwelling and garage at 4052 Harriet, 33x26, plaster veneer, modern, hot water heat, \$4,000; A. Albinson, Plymouth building.

Plans have been furnished by Glenn L. Saxton, architect, Plymouth building, for a dwelling for Peter Kohler, Penn av. N., \$3,000; 2-story, modern, oak trim.

A. Albinson, Plymouth building, has contract for dwelling 2888 Irving S., for H. J. Nicholls, 28x32, plaster veneer, 1½-story, hot water heat, modern, \$3,600.

Business building, brick, 2 stores and 2 flats, being built at 1701 Crystal Lake av., for Edward Hahn, 619 17th av. N., 42x50, modern; \$8,000; day labor.

Work will begin at once on 8-story addition to Northwestern Knitting Co., 100 feet on Lyndale, 300 on 3d av. N.; cost \$250,000, to be done August 1.

\*A flat building for members of the state university faculty is planned; stock company with stock among faculty; President Vincent interested.

L. S. Donaldson Co. state that construction of garage building for which site was bought, 2d av. S. and 7th st. will not be started this year.

Hulda A. Anderson, 2333 27th av. S., is building a duplex 411 2d av. S., modern, frame, hot water heat, \$4,600.

A frame garage is being built by Mrs. B. E. Smith, 2212 Fremont S.; shingle roof, concrete floor, day labor.

S. G. Leslie, 304 Plymouth building, got the \$19,000 plastering contract, new Palace theater.

Fire destroyed store and dwelling of A. Springer, 837 Western av.; loss \$4,000.

Park board will enlarge Camden Park Bath House laundry.

## OMAHA, NEB.

Bids were opened March 26, for a business building, 2 stores, 524-26 N. 24th for H. J. Abraham, Omaha; 36x75; steel beams and columns; vault lights; fireproof tile, common, pressed and enameled brick, furnace heat; gas, electric light, metal cornice and ceiling, composition roof, patent plaster, plate and prism glass, sidewalks lights, floor tile, maple floors, marble; cost \$5,000; J. P. Guth, architect, Omaha.

A comfort station for women will be built by the Brandeis interests, 16th and Douglas.

There were 125 at the Builders' Exchange fellowship dinner; among the speakers were Daniel Baum, J. M. Gillan, L. L. McIlvaine, Harry Lawrie and President Grant Parsons.

L. D. Franfurt is making plans for a double apartment for C. B. Moser, Park and Jackson.

Dr. Louis Moon, Methodist hospital, will build a \$5,000 residence, Mercer Park, brick.

George B. Johnson, Merchants' Express Co., will build brick residence.

F. A. Mufinger will build an \$8,000 house, brick, Mercer Park.

George B. Prinz was chosen architect of the new First Presbyterian church.



# PROPOSAL ADVERTISING FOR BIDS

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OFFICIAL ADVERTISEMENTS for proposals will be published in this department on receipt of copy with order from authorized official, building committee, architect or engineer.

RATE FOR NOTICES in this department ment—15c per line each insertion. No discounts allowed. Several insertions are customary to insure full and fair competition.

PRINTED SLIPS are furnished to officials, architects and others interested, for distribution by them, without extra charge.

PROFITABLE INVESTMENT—it has been the experience of those who have used this medium that by investing a few dollars they have saved hundreds.

COPY RECEIVED up to Friday, 10 a. m., will be published in the paper, delivered to subscribers on Saturday, but should reach the publication office, Lumber Exchange, Minneapolis, earlier in the week, when possible.

LATE NOTICES Friday morning can be transmitted by long distance telephone.

### PAVING.

West Union, Iowa.

Sealed proposals will be received at the office of the City Clerk of West Union, Iowa, until 1 o'clock P. M., April 2, 1914, for approximately 30,000 square yards paving, bids on either concrete, asphaltic concrete, bitulithic, sarcolithic, brick and creosote block will be received. Certified check for \$1,000.00 to accompany bid. Work to be finished by August 20, 1914. Plans and specifications on file with the City Clerk and at the office of M. Tschirgi & Sons, Engineers, 314 Masonic Temple, Cedar Rapids, Iowa.

(Signed) R. P. CAMP,  
City Clerk.

### BIDS WANTED.

School, Soudan, Minn.

Sealed proposals will be received by the Board of Education for School District No. 9, St. Louis County, Minnesota, at Soudan, Minnesota, on April 4, 1914, at 11 o'clock, A. M., for the erection of an addition to a school building in accordance with the plans prepared for the same by Bray & Nystrom, Architects, Duluth, Minnesota.

Bids to be submitted on forms supplied by the Architects.

All bids must be accompanied by a certified check in an amount equal to 5 per cent of the amount of the bid and all checks must be made payable to Fred Williams, Treasurer.

Should the Contractor, to whom the work will be awarded refuse to accept the same his certified check will be forfeited to the Board of Education.

The owner reserves the right to reject any or all bids.

HART HEWITT, Clerk.

### ROAD MACHINERY PROPOSALS.

Le Sueur, Minn.

Office of the County Auditor,  
Le Sueur County, Le Sueur Center, Minn.  
Notice is hereby given that the Board of County Commissioners of the County of Le Sueur, Minn., will meet in special session on Monday, the sixth day of April, 1914, at 2 o'clock P. M., of said day, for the purpose of receiving and considering sealed proposals for sale to said County of Le Sueur of the following tools and road machinery:

Sixteen road drags.

Twenty four-wheel scrapers, No. 2½.

Sixteen drag scrapers, No. 2.

Four road plows.

The said Board reserves the right to reject any and all bids.

J. H. KAISERSATT,  
County Auditor,  
Le Sueur County, Minn.

(Continued on Page 15.)

## PROFESSIONAL DIRECTORY

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Consulting Engineers.

Engineering Experts to Municipalities.  
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**B. TERREL HOYT**

Landscape Architect and Forester. Landscape plans made and executed for the development of parks, playgrounds, cemeteries and private grounds throughout the Northwest. Satisfaction guaranteed. Address 32 Linnaean Street, Cambridge, Mass.

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## ST. PAUL, MINN.

404 Scandinavian American Bank Building.  
Phone: N. W. Cedar 1683. Mail or telephone  
news not later than Wednesday.

Items marked with asterisk not in daily sheets.

## Building Permits.

Wm. Jackson, 192 W. Central, 2-story frame, 4 flats, Central near Ravoux Wm. Jackson, builder..... 5,000  
Alex Rydell, 796 Case, 1½-story frame dwelling, Jenks near Earl, Alex Rydell, builder..... 1,600  
Carl Peterson, 1768 Blair, 1-story frame dwelling, Lafond near Fairview, Carl Peterson, builder..... 1,200  
E. C. Kellner, 2-story frame dwelling, Raymond near Dudley, Rydeen & Haney, builders..... 3,600  
Mrs. M. K. Kreink, 204 Dispatch, 1-story frame dwelling; Augusta near Livingston; Baltuff Building Co., builders..... 1,800  
J. McIntosh, 1-story frame dwelling, 1335 Hewitt near Hamline; A. H. Heimbach, builder..... 2,000  
Wm. Peterson, builder, 569 S. Smith, 1-story frame dwelling, Smith near Winona..... 2,300  
A. K. Lundblum, builder, 736 York, 1½-story frame dwelling, Lincoln near Prior and Cleveland..... 2,000  
A. N. Chapman, builder, 2316 Pierce, 2-story frame dwelling, alterations and repairs, 2316 Pierce near Como, The Gardner Co., builders..... 1,000  
T. A. Snell, 2354 Chilcomb, 1-story frame dwl, 1490 Fairmount near Pascal; T. A. Snell, builder..... 2,200  
M. Harris, builder, 711 Capital Heights, 1-story frame and stucco store, 738 Robert near Capital Heights..... 1,500  
C. E. Bergman, 832 Holly, 2-story brick and veneered dwl, Summit near Fairview; Olo, Haugen, builder..... 5,500  
F. A. Manthe, 457 Goodhue, 1½-story frame dwl, Sturges near Western; A. J. Sundquist, builder..... 2,500  
G. F. Krause, builder, 16-story frame dwl, 749 Fuller near Grotto; Chas. H. Teute, 316 Wabasha, 1½-story frame dwelling; Chas. H. Teute, builder..... 3,000  
O. S. Herwir, 7-story frame dwelling, Thomas near Syndicate; O. G., Aulee, builder..... 2,500  
Jos. and Chas. Friedman, 25 W. 5th st., 3-story brick tenements and stores, Selby near Snelling; Jos. and Chas. Friedman, builders..... 60,000  
Merchants National Bank, 16-story steel and concrete bank and office building, Robert near 4th; Geo. J. Grant, builder..... 1,250,000  
O. E. Probst, 2-story frame dwl., Hall near Belvidere; John A. Rose, builder..... 2,000  
Residence of Thomas Frankson, 306 Pioneer building; 28x48, \$15,000, under construction, Midway Parkway and Hamline av.; English type, 2-story, brick veneer, white glazed brick, green tile roof, concrete foundation, promenade tile terrace, plate glass dome conservatory, quarter sawed oak on first floor, birch on others, tile floor in conservatory, beam ceilings, 2 fireplaces, one to have hammered copper door; indirect invisible lighting system in library; diamond cut beveled plate glass, French doors, sideboard, kitchen cabinet, billiard room, laundry trays, vapor heating system, tile bath room, shower bath, medicine cabinet, seven lavatories, closet cabinets; paneled wainscoting, arch, bookcase arch, reinforced concrete slab observatory, porte-cochere under; bids in for material; contract to Bungalow Construction Co., 211 Dispatch building.  
Buechner & Orth, architects, Shubert building, will have plans for the Glasgow, Mont. bank, store and office building out next week; heating, plumbing and electric work; figures taken by architects and owners; bids received on the bank and office building, Grand Forks, till April 15; Ramsey County almshouse plans out for figures; heating and plumbing, Smythe Printing Co. building, out for figures; plain and ornamental plastering contract, Palace theater, Minneapolis, let to S. G. Leslie, Minneapolis, about \$19,000.  
\*Fred Noerlander, contractor, American National Bank building will build the L. Goodkind residence, Crocus place; contract let this week; A. H. Stem, architect, Endicott building; rubble stone, Bedford stone, stucco, one-half timber, shingle roof, casement windows, sun-room, rubble foundation, laundry drier, marble and tile work, quarry tile terracing, dumb waiter, weather strips, Sackett board; general contract about \$18,000; total about \$25,000; plumbing, heating, etc., to be let in two weeks.

\*P. J. Linhoff, architect, Germania Life building, is preparing plans for a large modern residence, Goodrich av., for J. W. Gruber, vice president, Great Northern railroad; brick, 2½-story, tile or red asbestos roof, concrete foundation, hot water heat, four tile baths, tile vestibule, tile kitchen, tile porches, tile breakfast room, beamed ceiling, vacuum cleaner system, plate glass windows, 2 brick fireplaces, sun-room sleeping porch, architect will take figures.

Alban & Lockhart, architects, Chamber of Commerce building; club, house, lodge and dining rooms, 2 kitchens; 3-story and basement, 50x136; \$45,000; E. 9th st.; I. O. O. F. care Chas. Keeler, lessee, St. Paul Lodge No. 2; architects are taking figures; press and common brick, stone, tar and gravel roof, metal skylights, structural and ornamental iron, marble.

Bungalow Construction Co., 211 Dispatch building, has prepared plans for Dr. C. L. Lohm, 18½ E. 6th st., 26x36, 1-story bungalow, modern throughout; concrete foundation, built-in sideboard, kitchen cabinet, oak and birch floors, cobble stone fireplace, oak and birch trim, laundry trays, medicine cabinet, hot water heat, \$3,500; Lexington av. near Cross st.

\*H. A. Sullwold, architect, Commerce building, is making plans for a residence at Long Prairie, Minn., for M. L. Reichert; 50x32, frame, siding, 2-story and attic; concrete foundation, hot water heat, hardwood and Torgoment floors; sun-room, sleeping porch, brick fireplace, wiring, laundry tray, cistern, plans on in six weeks; owner will take figures.

Alban & Lockhart, architects; residence, Commerce building; church, finished basement with kitchen and dining room, seating 600; 60x80; \$25,000; Hamline; Knox Presbyterian church, Rev. B. S. Bates, pastor, Asbury and Minnehaha st. Architects taking figures until April 1; face and common brick, stone, composition roof, structural iron.

Alban & Lockhart, architects, Chamber of Commerce building; school 6 rooms, auditorium, 2 story and basement; 60x118; \$50,000; Northwood, Iowa, owner town of Northwood, Iowa, board of education; plans in progress; face and common brick, hollow tile, reinforced concrete, tar and gravel roof, structural iron.

\*Peter J. Linhoff, architect, Germania Life building, will have plans out next week for a commercial garage, University and Central, Minneapolis, owners' names withheld; 66x160; 2-story, trusses, brick, concrete, electric freight elevator, plate glass front, plumbing, heating, wiring; architect will take figures.

Central Warehouse Co., J. P. Fueling, manager, Pillsbury av., corner Charles, will build dwellings for employees in Midway district; modern, cost about \$75,000; two blocks purchased, D. R. Elder, agent, 2017 St. Anthony av., for deal; company will install sewers, sidewalks and other improvements.

Skyscraper talked of for triangle St. Peter and 6th; Julius Rosenwald, Sears & Roebuck Co., Chicago, reported to have leased from Geo. L. Raymond and Prof. J. Paige, University of Minnesota, owners of land; Century Realty Co., Gregory Bolt, Z. H. Thomas, G. L. Cox and others handled deal.

Alban & Lockhart, architects, Chamber of Commerce, have plans in progress for telephone building, 1-story and basement, 24x50, Northwood, Iowa, for Northwood Telephone Co.; face and common brick, stone trim, tar and gravel roof, galvanized iron cornice, structural iron.

\*E. J. Donahue, architect, Gilfillan block, has furnished plans for a modern residence, Dayton and Milton, for Thos. McKasy, modern, frame, 30x36, 2-story, hot water heat, oak floors, O and B trim, tile, owner taking figures, McKasy Bros., Rice and University.

\*J. O. Cederberg Jr., architect, Endicott building, is drawing the plans for the Swedish Baptist conference seminary, St. Anthony Park, Como near Snelling; brick, 2-story, modern; Olaf Swenson, contractor, is on executive committee.

\*Contract for remodeling the French building to studio building, awarded to Shuett & Forshee, general contractors, Lowry annex; interior will be arched; plumbing and heating not let; H. A. Sullwold, architect, Commerce building.

A. L. Garlough, architect, Rosen building, has furnished plans for a frame dwelling, Dayton between Moore and Wilder, for John Lynch; 26x30, modern, hot water heat, sun room, sleeping porch, H. M. Elmer, contractor.

E. H. Ellerbe, architect, Endicott building, will complete plans next week for theater,

remodeled from store, seating 750; \$20,000; Rochester, Minn.; probably stucco, terra cotta, tar and gravel roof, structural iron.

M. J. O'Neill was low for heating Ramsey school addition; John E. Holt, low plumbing, Kees & Co., low heating, Ames school; Pearson & Bayer bid \$1,579 each on school cottages; Superintendent Gerlach has figures.

\*E. J. Donahue, architect, Gilfillan block is preparing plans for a frame church, 33d av. S. and 43d st., Minneapolis; Rev. O. J. Rawson, pastor; 44x120; 1-story and basement, steam heat, structural iron.

Contract awarded for store building 3d and Robert, to John O. Linden; plans by Alban & Harris, architects, Commerce building; brick, terra cotta; granite, reinforced concrete, marble, terrazzo floors.

Alban & Lockhart, architects; residence, sleeping and sun porches; 2-story and basement, 35x44; \$10,000; Stevens Point, Wis.; owner F. Glennon, Stevens Point; plans in progress; frame or hollow tile.

Alban & Lockhart, architects, Chamber of Commerce building; residence, 1½-story, 28x32; \$3,500; Northwood, Iowa; owner E. M. Sabin, Northwood; plans in progress; hollow tile, stucco, shingle roof.

Alban & Lockhart, architects, 407 Chamber of Commerce building, have sketches for remodeling Chamber of Commerce building; owner Cushing & Driscoll, 291 Endicott buildings, agents.

\*Contract awarded to Charles Skooglund, Ryan Annex, for the Abbott Constans building, Robert st., widening; total cost \$20,000; Toltz Engineering Co., architects, Pioneer building.

\*Alban & Lockhart, Chamber of Commerce building, are preparing preliminary plans for St. John's Lutheran hospital, 7th and Homan; \$60,000; fireproof; Dr. Plondke, surgeon in charge.

School at Owen, plans by Alban & Lockhart, will be 72x91, brick, stone, steel cols. and beams, wood joist, gypsum board lath and plaster; plans out in 30 days.

\*Plans for the picture theater Windom, Minn., are on file at the Builders' Exchange, St. Paul and Minneapolis; P. J. Linhoff, architect, Germania Life building.

Wagner & Tschida, Dale and Lafond, have the plumbing and heating contract on the dwelling for Annie Eberhardt; H. A. Miller, architect, Pittsburg building.

\*H. A. Sullwold, architect, Commerce building, will remove April 15 to the Studio building, (French building remodeled) suite 207-208, 4th and Market.

\*McMurray Coffee & Spice Co. has bought dwelling, 9th and Rosabel; will remodel for quarters when present premises 9th and Cedar are sold.

Alban & Lockhart, architects; bank, \$16,000; Forest City, Iowa; owner First National Bank, Forest City; sketches in progress; details later.

\*Rydeen & Haney, 755 University, have the contract for a dwelling, Raymond and Dudley for E. C. Kellner; 2-story, frame, 26x36, modern.

Carl Allman, 230 W. Central, has the contract for a 4-flat, Central and Pavoux for Wm. Jackson, 192 W. Central; frame, 27x44, modern.

\*A. J. Sandquist, 2316 W. 7th, has the contract for dwelling, Surges and Western, for F. A. Manthe, 547 Goodhue; frame, modern, 24x28.

\*Contract for the S. E. Barker residence, Excelsior, Lake Minnetonka, will be let soon; F. H. Tewes, architect, Endicott building.

\*O. G. Amlee, 23 South st. has the contract for a dwelling for O. A. Herwin, Thomas, 1-story, frame, 29x41, Thomas and Syndicate.

\*Contract for the parochial school at Sleepy Eye was let to Otto Neitge, Mankato; E. J. Donahue, architect, Gilfillan block.

Hickory Gas Mantle Manufacturing Co., 375 Minn., will build fireproof steel, concrete plant, University and Griggs, 2-story.

L. W. Baumeister, 1145 Ross has the contract for a dwelling 301 E. Geranium for John Lindner; 2-story, frame.

\*Manager Harry Sherman of the Hotel Aberdeen announced \$50,000 will be spent improving hotel, with parking.

Bids in on the new construction for the Standard Oil Co., 3d and Commercial; \$75,000; warehouse, garage, etc.

A. H. Heimbach, contractor, 1335 Hewitt



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HILLSBORO, N. D.

### PROPOSALS WANTED. Creamery, Loretto, Minn.

The undersigned hereby gives notice that sealed proposals for the erection of a Creamery at Loretto, Minn., including all labor and material, will be received by the Loretto Progressive Creamery Assn., until the hour of 1 p. m., on the thirteenth day of April, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by H. E. Swanson, of Dassel, Minn., which may be seen at the office of the Improvement Bulletin on and after March 16, 1914, and may also be seen on application to State Bank of Loretto, Minn.

The Building to be completed by September 15th, 1914.

A certified check for \$300, payable to the order of Loretto Progressive Creamery Assn., must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the sum of the amount of the bid for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed) HENRY SCHUMACHER,  
President.  
Loretto, Minn.

Place, Loretto, Minn.

### PROPOSALS FOR METAL FURNITURE, ELECTRIC LIGHT FIXTURES, ETC. Aberdeen, S. D.

The undersigned hereby gives notice that sealed proposals for the wood furniture, the metal furniture and the electric light fixtures including all labor and material necessary to install same complete ready for use, will be received by F. W. Raymond, Aberdeen, S. D., until the hour of 10 A. M., on the 20th day of April, 1914, for the wood furniture, on the 27th day of April, 1914, for the elec-

tric light fixtures, and on May 11, 1914, for the steel furniture.

All bids must be in strict accordance to the plans and specifications, prepared by Geo. F. Fossum, Architect of Aberdeen, S. D., which may be seen at the office of the architect on and after the date given below, for the wood furniture and electric light fixtures and on and after March 23, 1914, for the steel furniture.

A certified check for 5 per cent, payable to the order of Geo. Bolles, must accompany each bid as a guaranty, the same to be returned to the unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the full sum of the bid for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed) F. W. RAYMOND,  
Auditor,  
Aberdeen, S. D.

Aberdeen, S. D.,

### PROPOSAL FOR BIDS.

School, Pierz, Minn., Morrison County.

Sealed bids will be received for the construction of a Parochial School for St. Joseph's Church, Pierz, Minn., until 2 P. M., April 7, 1914, according to plans and specifications on file at the architect's office, E. J. Donohue, Gilfillan Building, St. Paul, Minn., or at the Parochial Residence of Rev. J. G. Stiegler, Pierz, Minn. Each bid must be accompanied by a certified check for \$100.00 as evidence of good faith, said check to be made out to St. Joseph's Church Corporation, Pierz, Minn. The right is reserved to reject any or all bids.

REV. J. G. STIEGLER.

### PROPOSALS WANTED FOR MOTOR. St. Cloud, Minn.

Sealed proposals will be received by the City of St. Cloud, Minnesota, at 3 P. M., March 31, 1914, for furnishing one 35 and 50 horse power, 900-RPM, 3-phase, 60-cycle, 2-200-volt, Slip Ring Type Induction Motor complete with pulley and controller or other suitable starting device.

Proposals must be accompanied by full technical description of the motor and equipment.

The contract will include the customary clauses as to one year guarantee of replacement of defective materials or workmanship, guaranteed protection against loss by reason of patent damage suits and a clause stipulating the payment of the sum of \$10 per day as liquidated damages in case of failure to deliver the equipment within the time limit agreed upon.

The motor is to be delivered F. O. B. St. Cloud, Minnesota. An early delivery is desired and contractor will be held to delivery stated in proposal.

The motor will be used to drive through belt and line shaft connected to a rock

crusher, screen, elevator, etc. The motor must be designed for such service, and must be of the wound rotor or slip ring type. The motor shall have adjustable sub-base and Rockwood composition paper pulley with crown face, approximately 16 inches in diameter and 10 inches face.

The successful bidder will be required to allow credit, F. O. B. St. Cloud, Minnesota, for the following Fairbanks motor, which is in good operating condition, and can be seen at the crusher plant, St. Cloud, Minnesota. Fairbanks-Morse serial No. 4366-H, Amps 53.6, 35-Horsepower, 875 RPM, 550-Volt.

Bids must state the price of the new motor and the allowance price of the old motor.

Certified check must be submitted with all bids, check to be in the amount of 5 per cent of the proposal price, made payable to the City of St. Cloud.

The right to reject any and all bids is hereby reserved.

Witness my hand and seal of the City of St. Cloud, Minn., this 20th day of March, A. D. 1914.

(Seal) GEO. G. MAGNUSON,  
City Clerk.

### NOTICE TO CONTRACTORS.

School, Cooperstown, N. D.

Sealed proposals will be received by the clerk of the Board of Education at Cooperstown, N. D., up to 1:30 P. M., of Friday, April 3, 1914, for the erection and completion of a school building, to wit:

1st, for building complete, without heating and ventilating apparatus.

2nd, bids may be made separately, to wit:

(a) for material alone; (b) for labor alone.

Proposals for steam heating and ventilating apparatus will be received at the same time.

Plans and specifications may be seen after March 18th, with the clerk of the school board of Cooperstown, at the Fargo Builders' Exchange, and at the office of the Architects.

Each bid on the building, labor or material to be accompanied by a certified check for \$500.00, and each bid on heating and ventilating systems with a certified check for \$200.00, made payable to the clerk of the Board.

The checks of successful bidders will be forfeited to the school board should they fail to enter into contract and furnish satisfactory bonds, in accordance with state law, for the faithful execution of the work.

Bids must be plainly marked on the outside of envelope, "Sealed Bid for ....." (specifying for what part of work).

The right to reject any or all bids is reserved.

By order of the School Board.

CHAS. BURSETII, President.  
OSCAR D. PURINTON, Clerk.  
HANCOCK BROS., Architects.

(Continued on Page 18.)

## Don't Make a Mistake!

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has the contract for a dwelling for J. M. McIntosh; 1-story, frame, 24x36.

\*Bids received till April 6 2 p. m., for boiler room and service building, Como Park; Park Board, 42 City Hall.

\*G. F. Krause, 651 Aurora, will build a dwelling at 749 Fuller; frame 24x40 1 and 2-story; owner builder.

A. N. Chapman, 2316 Pierce is altering dwelling, 2-story, for Theo. Gardner & Co., contractors.

A. K. Lundblum, 736 York is building a 2-story frame dwelling, 24x24, Lincoln and Prior; modern.

Wm. Peterson, 569 S. Smith, is building a frame bungalow, Smith near Winona; 24x38, modern.

City engineer has submitted plans for large sewer system, Maryland-Brainerd district, \$30,600.

New bridges across Mississippi at Robert st. urged by Association of Commerce.

\*Library board rejected all bids on mechanical equipment; new library.

## HEAD OF THE LAKES

Office: 206 Manhattan Building. Telephone: Auto 3036. Mail or telephone news not later than Wednesday.

### DULUTH.

Contract for the rebuilding of the premises on Michigan st. and 1st av. W., formerly occupied by the Barthe-Martin Co., and gutted by fire a few weeks ago has been let to the D. H. Clough Co. An expenditure of approximately \$20,000 will be entailed. The building will be made practically fireproof. The premises will be equipped with automatic sprinklers throughout. An additional story will be added, bringing the building up to four stories. An elevator, enclosed in a fireproof shaft is to be installed, adjoining the elevator, also fully enclosed, will be a stairway running from top to bottom of the building. The building is owned by Charles Davis of New York and Charles P. Craig & Co., are its rental agents.

General contracts for the Cassius Bagley and George A. French homes, to be erected on adjoining sites at 21st av. E. and 1st st., have been let to Otto Johnson, contractor; Frederick W. Perkins, Chicago and Duluth, is the architect of the two structures. The French home will be 50x50, brick; cost \$40,000; the Bagley place of stucco; cost \$35,000.

Plans completed about April 2, for a 2-story residence for Bernard Silberstein, 31 W. 2d st.; face and common brick, hollow tile, shingle roof; E. G. German, architect, 411 American Exchange Bank building; building to cost about \$18,000.

It was expected to let the contract for the Bentley P. Neff home a few days ago at about \$13,000; Holstead & Sullivan, architects; face and common brick, shingle roof, Wolff's plumbing.

Sketches completed by Austin Terryberry, architect, for a pavilion at the Lakewood pumping station; frame, stucco, shingle or composition roof; 62x52, \$6,000.

An architectural firm has been commissioned to furnish tentative plans for a temple for Duluth temple 186, Camels of the World; J. P. Rossburg, ruler.

A. W. Kuehnow, president of the Gary Land Co. has announced that an eastern syndicate will build 35 houses at that place this summer.

Sketches being made by V. J. Price & Co., architects, for a residence for Louis Dworshak; hollow tile, stucco, composition or shingle roof.

Plans by Edward P. Shurick, architect, are out for a building on 4th st. E.; brick and stucco construction, hot water heat.

Arthur Hanford, architect, has plans in hand for a \$4,000 frame residence in Kenilworth Park.

Charles A. Marshall announces that the Lyceum theater will be improved and remodeled at an expense of \$5,000.

## FARGO, N. D.

Senator James Kennedy of Fargo, with a bid of \$663,000 landed one of the largest sewer contracts of recent years at Los Angeles, Cal.; he gave a certified check of \$100,000;

he will build a complete storm sewer system for the city.

Plans on file at the Builders' Exchange here for the Gill Bros.' store at Bemidji, Minn.; 25x50; \$7,000; bids close soon; Haxby & Gillespie, architects.

Contract let to Burnett & Nibbe for construction of city hall at Ellendale, N. D.

A grand stand will be built at the Fargo college stadium and grounds parked for the opening of the season.

Fargo will vote on the central market proposition April 6.

## MILWAUKEE, WIS.

Office: Hathaway Building. Telephone: Main 1827. Mail news to Minneapolis office not later than Wednesday.

### Building Permits.

O. Ody, Bremen and Locust st., flat, Greensdale Foundry, Corcoran and Jackson st., alterations.....	5,500
Frank Kresta, 17th and Vliet st., alterations.....	1,000
Enterprise Investment Co., 25th near Peace, dwl.....	1,000
John Kitzus, 25th near Peace, dwl.....	2,000
Val Nowak, 1025 2d av., alterations.....	2,400
Jacob Dersken, 25th near Scott, flat.....	2,600
Payne & Slater Co., 622-630 Williams, Otto Steuerwald, 38th and Elm st., flat.....	4,400
John Jackson, 427 33d av., flat.....	4,300
M. Hauser, 517 Cherry st., shop.....	4,400
Charles Schwichtenberg, 924 7th av., flat.....	1,200
Milwaukee Grinder & Specialty Co., 22d and Sycamore st., shop.....	3,300
Simon Hoffman, 865 39th st., flat.....	7,500
W. Woltersdorf, 488 18th st., garage.....	5,300
L. Geisinger Co., 23d and State sts., flat (2).....	3,500
W. Williams, 96 Mason st., alterations.....	5,500
F. Reiske, 598 19th av., flats.....	3,000
W. Reitman, Folsom st. and Frederick av., stores.....	5,000
A. Sekomovitz, 907 8th st., apartments.....	7,000
A. Kirchborn, 2d and Lincoln av., flat.....	7,000
H. Reischke, 576 19th av., flat.....	5,000
C. Fin, 24th between National and Scott, dwl.....	3,000
H. Hoerig, 51st and Vine, flat.....	4,500
A. Scheffler, 41st and Wright st., flat.....	5,200
E. Spahn, 2309 Cherry st., alterations.....	3,800
C. Adler, 25th av., near Scott, flat.....	2,500
H. Hunholz, 38th st. and North av., flat.....	4,100
A. Hoffmann, 48th and Pabst av., store and flat.....	4,500
C. Winnemann, 938 Newhall, flats.....	10,000
Architect C. W. Valentine, 428 Jefferson st., taking bids for duplex, 25th and National av., for W. A. Zahn; brick and frame, 26x35, furnace heat; also bids on residence E. Milwaukee, for Hugo Stoltz; brick veneer and stucco, 35x46, hot water heat; has awarded contracts on a duplex for A. Vogan on 17th st., north of Lloyd st.; carpenter, August Kroeger; mason, Richard Hoepfner; cement and concrete, Theodore Sander; plaster, Julius Gauger & Son; tile, J. D. McCusker & Son; sheet metal, H. E. Schaetzke; plumbing, Joe Machesky; electrical, A. B. Merten; painting, Jos. F. Schaefer.	4,700

Architect A. V. Wiskocil, 692 Island av.; plans for remodeling residence to duplex 18th st. and Cold Spring av.; frame, 26x50, hot water heat; bids about April 1; awarded contracts on a duplex flat, Frederick av., between Linwood av. and Kenwood for Mr. Brockman; plumbing, F. Schmitt; heating, Zuehlke Heating Co.; electrical, Piepkorn-Henning Electric Co.

Architect A. E. Swager, M. & M. Bank building, is preparing plans for remodeling Park moving picture theater, Mitchell st.; fireproof, 24x120; indirect lighting; same architect preparing plans for moving picture theater, two offices and two stores, 9th and Lincoln av.; 2-story, 69x120, indirect lighting, heating, vacuum cleaning, 858 seats.

Contractor H. F. Krause, 870 Superior st., closes bids April 1, on plaster, electrical and painting duplex Herman and Montana sts., for Walter Lippman; frame, 24x50; \$5,000; contracts awarded: excavating, C. Geck; mason, Jos. Pott; heating, L. J. Mueller Furnace Co.; lumber, South Side Lumber Co.

Architects C. F. Ringer & Son, Hathaway building, have awarded contracts duplex flat for Henry Cohn, Cedar st.; carpenter, Adam Clos; mason, Henry Hahn; plaster, Wm.

Leudtke; plumbing, Wink & Schmitt; heating, Zuehlke Heating Co.; electrical, Badger Electric Co.; painting, Heun Bros.

The Badger Architects, 916 Walnut st., have preliminary plans for store and dance hall, Fond du Lac av., near 18th; 2-story, 80x100, steam heat, 3 stores and hall; same architects will take figures shortly for remodeling a duplex into 4 apartment; brick veneer; hot water heat.

Architect Walter Neumann, 1130 26th st., closes bids March 28, for bungalow for S. E. Reiss at Brackenbrae and Gardner, West Allis; frame, brick, 26x46, hot water heat; same architect revising plans for bungalow for A. Huber, 25th st., near Burleigh; completed April 1.

Architect B. S. Schneiderer, Merrill building, will close bids March 31, for hungalow for O. W. Krentzer at Whitefish Bay; frame, brick foundation, 26x45; same architect opened bids on village hall and engine house at Thiensville, Wis., John Vollman, lowest bidder.

Architects Kirchoff & Rose, Majestic building, started taking bids March 23, for construction 6-story and basement, 50x120, reinforced concrete business block, 382 East Water st., for E. Rohnart; bids on cut stone, tile, heating and ventilating, roofing, elevators.

Architect John Menge, Jr., Matthews building, taking bids for moving picture theater at Port Washington; brick, 37x120, ornamental plaster, art glass; also bids for remodeling store, 3d and Center sts.; frame, brick foundation, 30x56; plate glass.

Architect John Roth, Locust and 2d sts., prepared plans for cement block kitchen addition for A. Fleischer, 922 5th st.; owner taking bids; carpenter work, remodeling and addition to store, 3d and Center, awarded Herman Dibbert.

Architect Chas. Keller, Germania building, has awarded additional contracts on duplex at 39th st. and Grand av.; concrete and cement, Henry Schreier; heating, F. W. Zaun; electrical, A. R. Merten.

General contractor, R. P. Hanson Co., 529 25th av., is taking bids on plaster, plumbing, electrical, painting, lumber and interior finish, for two cottages for the Hopkins estate, on 33th av., near Lapham st.

Architect Theo. R. Schutz, 296 W. Water st., closed bids, remodeling and addition to residence, 433 Oakland av., for John Gengler; frame, brick basement, 26x54, tile fireplaces, hot water heat; two flats.

Architect Van Ryn & DeGelleke, Caswell block, will be ready for bids about April 5, on State Normal school, Eau Claire, Wis.; reinforced concrete and brick, 160x240, steam heat; cost \$400,000.

Architect George Ehlers, 721 3d st., awarded general contract to Dahman Construction Co., on reinforced concrete store and factory, 3-story and basement, 25x106, at 3d and Lloyd sts.

Architect John Roth, Locust and 2d sts., has awarded on 6 apartment at 27th and Galena sts.; mason, Wm. Dallman; plaster, Margraff Bros.; sheet metal, R. Jeske Bros.

Architect Clare Hosmer, Wells building, taking bids for residence and a garage for F. J. Olson, Woodlawn court, Story hill; brick veneer and stucco, 31x40, hot water heat.

Architect Hugo Miller, M. & M. Bank building, taking bids for duplex, 6th st. and Auer av., for Mrs. A. Hahn; frame and stucco, 26x56, hot water heat; \$6,000.

Architects Leiser & Holst, Germania building, closes bids this week for bungalow for G. Kamzner, 12th av., near Vliet st., Wauwatosa; frame, 26x48, furnace heating.

Architect George Ehlers, 721 3d st., closes bids this week for duplex, 44th st., between North and Meinecke, for Mrs. J. H. Heinz; frame, 2-story, 50x24, hot water heat.

## DES MOINES, IOWA

Bert N. Mills, Representative.  
310 Hubbell Building.

Items marked with asterisk, not in daily sheets.

Harris-Emery Co. of Des Moines announces plans for doubling the size of its big department store; present structure will be torn away and new structure will replace it; cost \$200,000; 9-story building of steel will occupy east 44 feet of the present store and the west 66 feet will be built eight stories; plans by Proudfoot & Rawson; work is to begin Jan. 1, next year; Nate Frankel, president; the fireproof, modern heating plant.

Dubuque county supervisors were officially



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## PROPOSAL ADVERTISING FOR BIDS

### NOTICE TO BIDDERS.

State Rural Highway, St. Louis County,  
Minnesota.

Notice is hereby given that sealed proposals will be received at the office of the County Auditor of St. Louis County, Minnesota, until 2 o'clock in the afternoon of Saturday, April 11, 1914, for the construction of State Rural Highway Number Four (4), established by an order of the County Board of the County of St. Louis, Minnesota, made and filed on the 27th day of September, 1913. The contract will be let to the lowest responsible bidder or bidders.

That the approximate amount of the work of construction of said State Rural Highway Number Four (4), is as follows: The construction of approximately thirty-two (32) miles of highway, of which about one-half (1/2) is through swampy land, and one-half

(1/2) on upland. That the construction of said highway involves approximately thirty-one and eight-tenths (31.8) miles of clearing and grubbing of right-of-way; ninety-four thousand (94,000) cubic yards of ditching; thirty-eight thousand (38,000) cubic yards of turn-piking; eighteen thousand (18,000) cubic yards of earth to be hauled onto and placed on said road where the same runs through swamp; thirteen thousand five hundred, (13,500) cubic yards of excavation, cut and fill work; thirty-seven thousand (37,000) cubic yards of graveling on said road, and seventy-four (74) corrugated galvanized metal culverts varying from fifteen (15) inches to forty-eight (48) inches in diameter. That the estimated cost of said work, exclusive of engineering expenses, is approximately One Hundred Three Thousand Dollars (\$103,000.00). That the said work is located between the intersection of the Culver Road with the Miller Trunk Road, as its

eastern terminus, and the westerly limits of St. Louis County as its western terminus. That contracts for building the bridges on said road have already been let.

Proposals will be received on one or more sections or schedules of said work, and on one or more of such construction jobs, or for the entire work as one job. Each proposal must be accompanied by certified check made payable to the County Auditor of St. Louis County, for not less than ten per cent (10%) of the amount of any bid, as a guarantee that the bidder will if successful, promptly execute said contract and furnish a satisfactory bond for the faithful performance of the work as required by the drawings and specifications for said work. Bidders submitting bids on different sections or portions of said work will not be required to furnish separate check with each proposal, but one check for ten per cent (10%) of the aggregate amount of bids submitted will be sufficient.

Only experienced and responsible bidders will be considered in awarding contracts, and evidence of such experience and responsibility will be required. The County Auditor reserves the right to reject any and all bids.

Bids will be received for the construction of said road and the performance of said work on a yardage basis or by the station; bids for clearing and grubbing will be received on a lump sum per section basis only.

Proposals must be marked "Proposal for Constructing State Rural Highway Number Four in St. Louis County, Minnesota," and addressed to "O. Halden, County Auditor, Duluth, Minn."

All proposals must be based upon the specifications for said work which are a part of the Engineer's Report in said proceedings and on file in the office of the County Auditor, at the City of Duluth.

For further particulars, address the undersigned, County Auditor, or E. K. Coe, Engineer in Charge, Court House, Duluth, Minnesota.

Dated March 13, 1914.

O. HALDEN, County Auditor.

By J. O. WALKER, Deputy.

(Seal, County Auditor of St. Louis County, Minnesota.)

(Continued on Page 20.)

# The Modern Rock of Ages



"The standard by which all other makes are measured"

THE ATLAS PORTLAND CEMENT CO.

30 BROAD ST. NEW YORK

Corn Exchange Bank Bldg. Chicago, Ill.  
Morris Bldg. Philadelphia, Pa. Plymouth Bldg. Minneapolis, Minn.

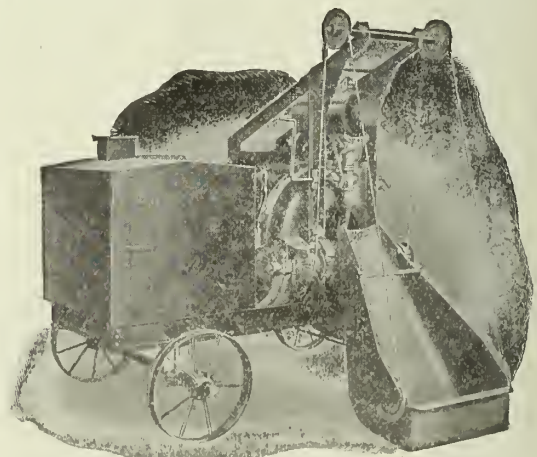
Productive capacity over  
— 50,000 barrels per day



Largest in the  
— World —

# Mixer Facts

Every Purchaser of Concrete Mixers Should Know  
the Importance of Thorough and Rapid Mixing, and  
the Durability of the Mixer.



## THE KOEHRING MIXER

See These Machines, Four Different Sizes, Now In  
Stock, At Our Midway Warehouse.

Phone us for appointment today. N. W. Annex 330,  
T. S. Center 1586. Get Our New Year's Guarantee.

## KOEHRING MACHINE COMPANY

615-619 Germania Building Milwaukee, Wis.  
N. W. Branch Office, H. B. Jones, Dist. Mgr.,  
349-351 Security Bank Bldg. Minneapolis



notified this week that the federal appropriation of \$30,000 for permanent roads now is available. That sum, with \$60,000 by the county, will be used to improve the Hawkeye highway, Dubuque to Dyersville.

Ames college and the Ames Commercial club are working together in an effort to interest outside capital in building suitable buildings for the housing of students at Ames college.

\*The Des Moines Structural Steel Works was awarded the contract for steel work required for the new church building at Maxwell, Iowa; C. W. Ennis, Toledo, Iowa, general contractor.

\*The steel for the Battles building at Jefferson, Iowa, is being furnished by the Des Moines Structural Steel Works, Des Moines; H. M. Marker, Jefferson, Iowa, general contractor.

B. A. Lockwood Co. has sold its three lumber yards at Sheldahl, Polk City, and Crocker to the Sloan Lumber Co., which operates yards in central Iowa.

\*The fire escape for the Spurrier apartments at 7th and School sts., Des Moines, is being furnished and erected by the Des Moines Structural Steel Works.

Contract for new high school at Newton was awarded this week to the firm of Maine & Sons of Des Moines; contract price, \$45,000; 50x100, 2-story.

Work on the double tracking of the main line of the Milwaukee across Iowa will be resumed the first week in April and is to be finished about Sept. 1.

Mayor Parley Sheldon of Ames announces that work is to begin on his new \$100,000 hotel about April 1; plans are being prepared by Des Moines architects.

Contracts for new bridges and culverts in Marion county to cost \$57,000 were awarded recently at Knoxville.

Keokuk Electric Co. announces plans for line extensions to cost \$10,000; work is to begin this spring.

## WINNIPEG, MAN.

*Items marked with asterisk not in daily sheets.*

Ten new companies were granted letters of incorporation last week in the province of Manitoba. The total capitalization is \$625,000. City & Suburban Ice & Fuel Co., Ltd., \$5,000; the Furhisheneing Co., Ltd., \$40,000; the Pantages Amusement Co., Ltd., \$10,000; Western Canadian Aviation Co., \$10,000; the Gladstone Park Co., \$80,000; McBriens, Ltd., \$20,000; Nelson & Foster Co., \$60,000. The full descriptions are as follows. Canadian Live Stock, Ltd. (Winnipeg), breeders and dealers in live stock of all kinds; capital stock, \$300,000, divided into 30,000 shares of \$10 each; incorporators, Fred H. Wood, John L. Harrison, Albert E. Red, Letty M. Hall and Wilford S. Boyd. David Bowman Coal & Supply Co., Ltd. (Winnipeg) dealers in fuel, coal and timber and builders' supplies; capital stock, \$100,000, divided into 1,000 shares at \$100 each; incorporators, Mr. and Mrs. David Bowman, Edgar H. Matheson, Phillip C. Locke and Frederick R. Sproule.

Permits: W. E. Toshack, apartment block, \$45,000, Hooper & Davies are the architects; alterations, Birk's jewelry store, \$30,000, W. Walker, builder; R. H. Lear, apartment block, \$50,000, Sigurdson & Co., builders; F. S. Parlee, residence, Oak av., \$8,000; A. J. Hammerback, two dwellings, Tweed st., \$4,000; G. Betz, dwelling, Bannerman av., \$2,500; M. Hehn dwelling, College av., \$2,400; J. K. Wallace, dwelling, College av., \$4,000; J. W. Parker, two dwellings, Rathgeber av., \$6,000; A. Ellstrom, dwelling, \$2,500; H. X. Birehoff, dwelling, Alfred av., \$2,500.

\*St. Luke's church will erect a fine school house building adjoining St. Luke's church; B. Peterson, dwelling, Alverstone av., \$8,000; Gus Kohl, dwelling, McCallan av., \$2,000; H. Halderson, two dwellings, Home st., \$9,000; R. Cohen, 3-story apartment block, \$60,000, Pembina and Nassau sts., M. Blankstein, architect; B. Peterson, apartment block to cost \$40,000, Agnes av.; H. Halderson, apartment block to cost \$45,000, William av. and Margarette st.

\*The following permits were issued: L. Gronbach, packing plant, Selkirk av., \$16,000, A. J. Bennett, builder; Andrews & Son, dwelling, Oak st., \$6,000; R. Cohen, two dwellings, Morley av., \$6,000; alterations, Crescent Creamery, 512 Sherburn st., \$3,000; G. Otto, bakery, Anderson av., \$2,000.

Permits for Scott-Hill Co. apartment block, Sherbooke and Ellice, \$35,000; C. S. Bridgman, architect; Sutherland Construction Co., the builders. G. W. Ford, dwell-

ing and garage, Academy road and Harrow, \$12,000.

B. Scott will erect dwelling; cost, \$2,500, Merriam av.; M. Doran, dwelling, \$1,700, St. Johns and McKenzie; F. E. Wilson, dwelling, \$1,600, Pacific av.; J. Dixon, dwelling, \$1,000, 365 Chalmers.

I. Merkle took out permit for five dwellings; cost, \$15,000; Morley and Nassau sts. Permit for three dwellings to cost \$9,000; four dwellings, same owner; cost, \$8,000.

\*Tenders are wanted to April 6, by Frank Ness, clerk, rural municipality of Assinabolia, Kirkfield Park postoffice, Man., for erection of a pumping station.

\*A morgue two stories high to cost \$12,000 and to be erected in Victoria Park, will be recommended to board of control by health committee.

Tenders wanted up to April 1 by Canadian Pacific railroad, resident engineer, Winnipeg, J. G. Sullivan, for concrete piers and abutments.

\*Permit was issued to Northern Knitting Co. for erection of a factory to cost \$17,500 on northwest corner of Austin st. and Selkirk av.

Seventy thousand dollars will be given to Winnipeg by Carnegie for branch libraries, \$35,000 each; will commence early in spring.

Chisholm & Koffman will erect seven houses, three to cost \$9,000; Logan and Electa; four to cost \$6,000, Harbison.

\*Tenders are wanted to April 6, by Frank Ness for supply of lumber and the building of sidewalks for balance of year.

Eight-story office building; \$250,000, for departments of city was considered by board of control.

D. R. Wood has permit for 3-story apartment block; cost, \$49,500; Beverley and Notre Dame.

Tenders wanted by board of control to April 1 for supply of hardware for year.

Manahan & Ballontyne will erect a residence; cost, \$3,000, Inkster av.

Church of Jesus Christ to be erected, will cost \$5,000; J. C. Catoon, builder.

Oldfield, Kirby & Gardner will erect large building, Portage av.

## SIOUX CITY, IOWA

Office: 310 Iowa Building.

R. N. Sager, Representative.

### Building Permits.

S. J. Franklin, frame dwelling.....	1,800
C. M. Williams, frame dwelling.....	1,500
A. Strombon, frame dwelling.....	2,500
W. W. Coan, frame dwelling.....	1,500
John Grace, frame dwelling.....	1,200
L. C. Kronen, frame dwelling.....	1,500
Mrs. C. Martin, frame dwelling.....	2,200
C. E. Williams, frame dwelling.....	1,000
George Patrick, frame dwelling.....	4,000
G. A. Newton, brick veneer building,	8,000
Empress theater, John Beigger lessee,	
theater building .....	100,000

Coomer & Small, contractors, have been building on Jackson st. to be used by the awarded the contract for the erection of the Empress theater when completed; it will be 60x150, 1-story and fireproof; brick exterior, reinforced concrete; tile and concrete floors; will have balcony and boxes and have a seating capacity of 1,600; equipped with ventilating system and air washer; ornamental plaster and stucco; in front ground floor will be used for store purposes and upper three stories will be used for offices; building to be completed by Sept. 1, cost about \$100,000.

Improvements will soon begin on the Crystal Lake park at Crystal Lake; a dance hall, refreshment pavilion, a hippodrome theater, 2 new bath houses will be built, an electric lighting system will be installed and a base ball field and tennis court will be laid out; cost about \$25,000.

Geo. W. Burkhead, architect. Grain Exchange building, is drawing plans for a bungalow for N. A. Kallison at Yankton, S. D.; it will be 25x38, will have steam heat, electric lights and will cost about \$4,000.

Geo. W. Burkhead, architect, is drawing plans for a residence for R. L. Kindall at Plain View, Neb.; it will be frame construction; have hot air heat and will cost about \$3,500.

## Street and Road Work

*Notes arranged alphabetically by states.*

**Alta., Calgary**—Ten miles of plank walks will be laid this year in various parts of the city where cement cannot be laid; two miles to be laid at once.

**Iowa, Dubuque**—City engineer instructed to prepare a plat for grading, curbing, guttering and paving various streets.

**Iowa, Fort Dodge**—Petitions for forty-two blocks of paving are before the council. Address city clerk.

**Iowa, Fort Dodge**—Petitions before council for 42 blocks paving; address city clerk.

**Iowa, Muscatine**—County board is considering purchase of a tractor and grader and possibly reversible wagons; H. C. Schoemaker, auditor, Muscatine county.

**Iowa, Sioux City**—Hearing April 11, for paving on Ross st., etc.; Paul J. Wells, city clerk.

**Minn., Duluth**—Bidders on Tower st. paving were as follows: hitulithic, Warren Bros. \$99,599.98; concrete, Walsh & Johnson, \$59,960.86; Russell Construction Co., \$57,148; Jno. Diffor, \$58,115.52; Peterson & Holm, \$59,593.98; E. A. Dahl, \$67,286; sheet asphalt, Walsh & Johnson, \$84,645.26; White Construction Co. \$80,398.80; Fielding & Shepley, \$79,274.98; E. A. Dahl, \$83,600.82; brick, Walsh & Johnson, \$94,658.48; E. A. Dahl, \$100,592.66; Fielding & Shepley, \$38,602.06; creosoted blocks, Walsh & Johnson \$98,550.50; Russell Construction Co., \$88,780.52; Peterson & Holm, \$106,919.86; Fielding & Shepley, \$99,018.

**Minn., Duluth**—St. Louis county will expend about \$15,000 this spring for road machinery, three or four tractors, one or two rock crushers, one or more power rollers and other equipment, and formal request for bids out soon. Odin Halden, auditor.

**Minn., Litchfield**—Following bids were received on gas tractors: Paul Turck, 20-horsepower Rumley with plows, \$1,600; Minneapolis Steel & Machinery Co., 40-horsepower, f. o. b. Litchfield, \$2,800; 20-horsepower, f. o. b. Litchfield, \$2,000. Aultman & Taylor, 30-horsepower, f. o. b. Litchfield, \$2,425. Rumley Products Co., 40-horsepower, f. o. b. Richmond, Ind., \$2,400, less 10 per cent for cash. Rumley Products Co., 30-horsepower, f. o. b. Richmond, Ind., \$2,720, less 8 per cent cash. Hart-Parr Co., 60-horsepower, f. o. b. Litchfield, net \$2,082.50. Nelson Spelliscy Implement Co., 30-horsepower, \$2,450; 27-horsepower, \$2,450; 18-horsepower, \$1,950, f. o. b. Chicago. Huber Manufacturing Co., 30-horsepower, f. o. b. Litchfield, \$2,335, 1-speed; 30-horsepower, f. o. b. Litchfield, \$2,475, 2-speed. J. I. Case, 20-horsepower, f. o. b. Litchfield, \$2,425. Emerson & Brantingham Implement Co., 40-horsepower, \$2,700; Big-Four 30-horsepower, \$2,600. Diamond Iron Works, 40-horsepower, \$2,600; 20-horsepower, \$1,700, f. o. b. Minneapolis. Flour City, 30-horsepower, \$1,872, net, f. o. b. Minneapolis; 40-horsepower, \$2,304 net, f. o. b. Minneapolis. Russell Threshing Machine Co., 30-horsepower, \$2,650, f. o. b. factory. Gallon Iron Works, 50-horsepower, f. o. b. Litchfield, \$2,850; 30-horsepower, f. o. b. Litchfield, \$2,250. Pioneer Tractor Manufacturing Co., 30-horsepower, f. o. b. Litchfield, \$2,700 cash. Minneapolis Threshing Co., 40-horsepower, f. o. b. Hopkins, \$2,400. Buffalo Pitts Co., 40-horsepower, \$2,490 cash, f. o. b. Litchfield.

**Minn., Minneapolis**—Five streets ordered paved under Elvvel law; 13th from Vine pl. to Hennepin; Grant from Vine to Willow; 9th from 1st av. N. to Western; 1st av. N. from 9th to 12th; Broadway from 5th to Jackson NE.

**Minn., Red Wing**—City and county may purchase jointly a concrete mixer equipment; address city clerk.

**Minn., St. Cloud**—City Engineer West instructed to prepare plans for granite curbing on several streets and avenues.

**Minn., Winona**—Council decided to purchase 50,000 gallons of oil, more or less, for oiling streets. Address city clerk.

**Mont., Helena**—Council decided on paving Helena av., hitulithic. Address city clerk.

**Mont., Helena**—Bid rejected for street sprinklers, the only bidder being Benson, Carpenter Co., Helena.

**Neb., Plattsmouth**—Town is agitating for more paving, curbing and guttering; address city clerk.

**Neb., York**—Election April 21, to vote on bonds for \$55,000 for intersection paving and drainage; address city clerk.



## KEEP TALKING---LINO FELT--"Between you and the weather"

If the cold of winter prevents you working on the outside, there is still time to save your customer money on his fuel bill by putting LINO FELT between or over the studding. This is Inside information. Talk to him about putting LINO FELT in the walls and roof of his home not only because he can save fuel in winter, but because LINO FELT keeps the heat out in summer, and the sound waves stop when they meet LINO FELT, insuring Comfort the year around

UNION FIBRE COMPANY, --:-- WINONA, MINNESOTA

### PROPOSAL ADVERTISING FOR BIDS

#### NOTICE TO CONTRACTORS.

##### Sewers, Sumner, Iowa.

Sealed bids will be received by the Town Clerk of Sumner, Iowa, until 7:30 P. M., May 6, 1914, for the construction of the following sewers:

- 13,345 feet 8-inch sewer.
- 8,675 feet 10-inch sewer.
- 1,460 feet 12-inch sewer.
- 46 manholes.
- 16 flushtanks.

Disposal tank complete.

E. A. WISNER,  
Town Clerk.

M. TSCHIRGI & SONS,  
Cedar Rapids, Iowa.  
Engineers.

#### PROPOSAL FOR SCHOOL BUILDING.

##### Coon Rapids, Iowa.

Sealed proposals will be received by the Board of Directors of the Independent School District of Coon Rapids, Iowa, at the office of Jno. W. Smith, President, up to 1:30 o'clock P. M., on April 21, 1914, for the erection of a Public School Building in said District. Proposals will be received for the furnishing of all labor and material for the following four separate contracts.

- A—General construction of building.
- B—Heating contract.
- C—Plumbing contract.
- D—Ventilating fan and equipment.

All work and material shall conform with the plans and specifications prepared by James S. Cox, Architect, Estherville, Iowa. Plans may be seen at the office of Jno. W. Smith, President at Coon Rapids, Iowa, and at the office of the Architect.

Plans and specifications may be obtained from the Architect upon application, accompanied by a deposit of \$15.00 for Contract (A) and \$10.00 for Contract B-C-D. Full deposit to be returned when plans and specifications are returned to the Architect's office, on or before 10 days after receipt of same.

Each proposal must be accompanied by a certified check equal to five per cent of total proposal, payable to the Independent School District of Coon Rapids, Iowa. This

deposit will be returned to the bidder whose proposal is rejected and also to the successful bidder upon his entering into contract with said district in accordance with his proposal and give a satisfactory surety bond to the district the penalty of which shall be the full amount of the contract price which contract and bond shall be entered into within five days after acceptance of the proposal. Should the bidder fail to enter into such contract and furnish said bond within said time said deposit shall be forfeited to the District.

The Board reserves the right to reject any and all proposals.

Dated at Coon Rapids, Iowa, this 20th day of March, 1914.

Independent District of Coon Rapids, Iowa.  
By JNO. W. SMITH, President.

#### CORN PALACE BUILDING.

##### Mitchell, S. D.

New Corn Palace Building. Architect for above building wanted. Write Lewis Shuster, Mitchell, South Dakota, Secretary of Committee.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., March 26, 1914. Sealed proposals will be opened in this office at 3 p. m., May 5, 1914, for the construction complete (including mechanical equipment, interior lighting fixtures, and approaches) of the United States postoffice at Wahpeton, N. Dak. The building is one-story and basement, with a ground area of approximately 3,230 square feet; brick facing; composition roof; first floor of fireproof construction. Drawings and specifications may be obtained from the custodian of site at Wahpeton, N. Dak., or at this office, in the discretion of the Supervising Architect. O. WENDEROTH, supervising architect.

#### CREAMERY BUILDING.

##### Medford, Minn.

The undersigned hereby gives notice that sealed proposals for the erection of a Creamery Building at Medford, Minn., including all labor and materials will be received by the board of the Medford Creamery Association until the hour of two o'clock P. M., Wednes-

day, April 15, 1914. All bids must be in accordance with plans and specifications prepared by Richard W. Swanson, architect, Dassel, Minn., which may be seen at the First State Bank of Medford.

A certified check for 2½ per cent, payable to W. H. Gilman, secretary, must accompany each bid as a guaranty, the same to be returned to the unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed) W. H. GILMAN, Secretary.

#### COTTAGES EIGHT AND NINE.

##### State Asylum, Anoka.

Sealed proposals will be received by State Board of Control in their office in the State Capitol Building at St. Paul, Minn., until 2 P. M., April 8, 1914, for the erection and completion of cottages 8 and 9 at Anoka State Asylum, including the general contract work, heating and ventilating, plumbing and electrical work, in accordance with plans and specifications furnished by C. H. Johnston, Architect, 715 Capital Bank Building, St. Paul, Minn. Bids will be received collectively and separately. Bids to be submitted only on form of bid supplied by the Architect; no other form will be considered. Bids to be accompanied by a certified check for 4 per cent of the amount of the bid, payable to State Board of Control, which check will be returned when building contract is executed.

Copies of above plans and specifications may be seen at Builders' Exchanges, St. Paul and Minneapolis, at the office of the State Board of Control as above and at the office of John Coleman, superintendent of above institution.

Extra copies of the plans and specifications may be obtained on application to the Architect on payment of cost of duplication. Successful bidders must furnish the Board with a surety bond in 75 per cent of the amount of contract. The right is reserved to accept or reject any or all bids.

## FREE HELP WANTED ADVERTISEMENTS

**WANTED**—Young man with good references as estimator. State wages and experience first letter. Address,

W. J. CURREN, Valley City, N. D.  
Wanted to buy second hand rock crusher. Must be in good condition. Address,  
W. J. CURREN, Valley City, N. D.

Good Rotary Neostyle, in first class condition, for sale cheap. One of the best machines made for getting out circular letters. Call or write W. F. Chapman, 912 Lumber Exchange, Minneapolis; N. W. Tel. Main 3902.

S. D., Sioux Falls—Over two miles paving ordered by city commission; contracts let soon; Walter C. Layse, city auditor.

Wis., Appleton—Low bidders on street work recently were. Lake st., Chris Johnson, Oshkosh, No. 1, concrete, \$1.69; Hackworthy Construction Co., city, No. 2, concrete, \$1.51; Meigs & Moritz, West Allis, westrumite, \$1.86. Seventh and County sts., Chris. Johnson No. 1 concrete, \$1.59; Hackworthy Construction Co., No. 2, concrete, \$1.47, Rocmac, \$1.73; Meigs & Moritz, westrumite, \$1.86.

Wis., Beloit—Preliminary steps taken looking to large amount of city paving; address city clerk.

Wis., Chippewa Falls—Contract for asphalt paving awarded to Fred Eul, Menasha, as follows: 8,209 square yards asphalt, macadam pavement, \$1.51; 4,020 lineal feet concrete curb and gutter, 50c; curb without gutter, per lineal foot 38c; gutter without curb, per lineal foot 34c; 396 lineal feet concrete head-ers, 29c; 20 gutter crossings, each \$8.50; total, \$14,655; other bidders: Chris. John-

A concrete mixer manufacturer, making one of the best mixers on the market, wants a good agent for the Northwest. For further information, call on W. F. Chapman, 912 Lumber Exchange, Minneapolis. Telephone, Main 3902.

#### POSITION WANTED.

Responsible position wanted by a practical cut-stone man, 25 years experience, as superintendent, foreman or partner, can give A 1 reference.

HUGO REICH,  
Garson Quarry, Man., Canada.

I would like to have a position as superintendent or carpenter foreman on heavy construction; steel or concrete construction; have had nine years' experience; can furnish good reference.

J. W. RUSSEL,  
4817 Poppleton av.,  
Omaha, Neb.

A first-class building superintendent who understands the installation of mechanical equipment as well as general superintendence of brick and concrete hospital. State experience and salary expected. Hartford & Jacobson, architects, St. Paul.

son, Oshkosh, \$16,039; Thos. E. Woolley, La Crosse, \$14,981.

Wis., Fond du Lac—Bidders on South Park av. and Marquette st. paving were: Franz Radloff, Plymouth, at \$1.40 per square yard on Marquette and \$1.46 on Park av. Other bids. Ed. Bartlett, Watertown, Marquette st. \$1.49, Park av., \$1.64; E. P. Tradewell, Antigo, Marquette st. \$1.49, Park av., \$1.64; E. P. Fitzgerald, Fond du Lac, Marquette st. \$1.45, Park av., \$1.65; G. H. Stanchfield, Fond du Lac, Marquette st., \$1.46, Park av. \$1.64; Larsen Construction Co., Oshkosh, Marquette st. \$1.48½, Park av., \$1.58; Christ Johnson, Oshkosh, Marquette st., \$1.44, Park av., \$1.55.

Wis., Superior—Bidders for paving Ogden av., opened March 20, were as follows. bitu-lithic—Warren Bros. Co., \$60,938.60; concrete—Peterson & Holm, \$34,791.04; Walsh & Johnson, \$36,927.30; E. A. Dahl, \$39,965.66; John Diffor, \$36,665.80; sheet asphalt—White Construction Co., \$41,749.69; Fielding & Shepley, \$42,875.94; Walsh & Johnson, \$45,095.50; E. A. Dahl, \$43,387.90; brick—Peterson &

Holm \$52,834.99; Fielding & Shepley, \$54,404.58; Walsh & Johnson, \$56,583.70; E. A. Dahl, \$54,611.10; John Diffor, \$53,405.05; creosoted blocks—Peterson & Holm, \$54,266.65; Fielding & Shepley, \$51,296.23; Walsh & Johnson, \$57,973.40; E. A. Dahl, \$55,029.50.

Wis., West Salem—Village board adopted resolution to pave Hamilton st. with concrete and a 2-inch reinforced wearing surface; S. W. Brown, village clerk.

#### BIDS WANTED.

Iowa, Corning—Bids received by W. C. Chubb, city clerk, until 8 p. m., March 30, for grading, curbing, guttering and paving certain streets; check for \$500.

Iowa, Council Bluffs—Hearing April 13, on concrete paving on Tostevin st., Graham av., and High st.; Chas. J. Duff, city clerk.

Iowa, Ottumwa—Council ordered bids be asked for on paving Vine st.; address city clerk.

Iowa, Sioux City—Bids received by Paul



J. Wells, city clerk, until 10 a. m., April 1, for paving 27th st.; check for 5 per cent.

**Iowa, Tama**—Plans are being prepared by the Oetna Eng. Bureau, Chicago, for 15,000 square yards brick paving.

**Iowa, West Union**—Bids received by R. P. Camp, city clerk, until 1 p. m., April 2, for approximately 30,000 square yards paving, either concrete, bitulithic, sarcolithic, brick or creosote blocks; check for \$1,000; officially advertised in this issue of the Improvement Bulletin.

**Minn., Blue Earth**—Bids received by Jesse L. Herring, auditor of Faribault county, until Mar. 30, for grading, turnpiking and culverts on county roads. Check for 5 per cent.

**Minn., Duluth**—Bids received by O. Halden, auditor of St. Louis county, until 2 p. m., April 11, for state rural highway No. 4, estimated to cost \$103,000; check for 10 per cent. Officially advertised in this issue of the Improvement Bulletin.

**Minn., Duluth**—Bids received by O. Halden, auditor of St. Louis county, until 2 p. m., April 6, for work on various roads, comprising clearing, grubbing and constructing.

**Minn., Duluth**—Property owners decided on concrete as desirable material for paving Vernon st.; Roberick Murchison, commissioner.

**Minn., Grand Marais**—Bids received by Chris. Murphy, county auditor, until 2 p. m., April 11, for state road No. 3; check for 5 per cent.

**Minn., International Falls**—Bids received by J. B. Clark, town clerk, until 10 a. m., April 4, for grubbing two miles of road in town of Pinetop.

**Minn., Mankato**—Bids received by F. W. Bates, city clerk, until Mar. 30, for paving various streets with asphalt concrete. Check for 10 per cent. Postponed from Mar. 23.

**Minn., South St. Paul**—Bids received by J. R. Stevenson, city recorder, until 8 p. m., April 6, for cement curbs, cement block gutters and crossings; check for \$100.

**Minn., St. James**—Bids received by J. C. Jensen, auditor of Watonwan county, until 2 p. m., April 28, for construction of state road; check for 5 per cent.

**Minn., St. Paul**—Bids received by L. G. Hoffman, secretary, board of park commissioners, until 2 p. m., April 6, for crushed stone; also, at same time, for asphalt road oil; check for 10 per cent on each.

**Minn., St. Paul**—Bids received by Oscar Claussen, commissioner public works, until noon, March 30, for repairing bridge floors in various parts of the city, requiring approximately 53,150 pounds No. 1 tarred felt, 45,538 pounds roofing pitch, 58,060 pounds paving cement 2,889 square yards, 4-inch L. L. yellow pine paving blocks, 1,851 square yards No. 1, small paving bricks; check for 10 per cent; also, at same time, for crushed stone or gravel for concrete paving foundations, requiring about 20,000 cubic yards of material; check for 10 per cent.

**Minn., Winona**—Bids received by city clerk, until April 6, for paving 2,850 feet, either entirely concrete, brick with concrete culverts, or brick without concrete culverts; estimated cost, \$1.63 a square yard with brick and \$1.43 with concrete. H. E. Walring, city engineer.

**Mont., Bozeman**—Bids received by city clerk, until April 2, for paving on S. Grand av.

**Mont., Helena**—Bids received by D. J. McConnell, city clerk, until 8 p. m., April 6, for two 600-gallon tank street sprinklers, f. o. b., Helena and ready for use; check for 10 per cent.

**Mont., Plentywood**—Bids received by Ben H. Johnson, county clerk, until 2 p. m., April 13, for three cars corrugated galvanized metal culverts, set up or solid, delivered f. o. b., one car at Bainville, one at Plentywood and one at Outlook; check for \$250.

**Neb., Albion**—Bids received by Geo. Browder, city clerk, until 4 p. m., April 1, for cement crossings, waterways and approaches. Check for \$100.

**Neb., Meek**—Bids received by F. H. Griffith, town clerk of Paddock township, until April 4, for grading various roads.

**N. D., Ellendale**—Bids received by John King, city auditor, until 8 p. m., April 6, for cement sidewalks and crosswalks during 1914; check for \$50.

**N. D., Fessenden**—Bids received by J. H. Schlechter, city auditor, for cement walks with granite or cement curb, 16 inches wide

and 5 inches thick; also for wooden walks; check for \$50.

**N. D., Steele**—Bids received by J. C. McWhimsey, auditor of Kidder county, until 2 p. m., April 6, for grading on various roads. Check for \$25.

**N. D., Velva**—Bids received by Frank Renning, auditor McHenry county, until April 6, for cement walks and crossings for 1914.

**S. D., McIntosh**—Bids received by Ralph E. Smith, auditor, Corson county, until 2 p. m., April 7, for grading on the Yellowstone trail divided into four sections; check for \$200.

**S. D., Watertown**—City commission will advertise at once for paving contract; address city clerk.

**Wis., La Crosse**—Bids received by Geo. Braddish, city engineer, until April 8, for two blocks asphalt macadam on 6th st.

**Wis., Racine**—Bids received by P. H. Connolly, chairman board of public works, until 10 a. m., April 18, for paving W. 6th st. with asphaltic macadam, 305 square yards paving and 263 lineal feet combined curb and gutter; also, at same time, for paving on Water st. with 5,584 square yards brick paving and 3,216 lineal feet combined curb and gutter; also at same time, paving on Liberty st. with asphaltic macadam, 1,980 square yards paving and 1,180 lineal feet curb and gutter; also, at same time, paving on Lake st., 1,140 square yards asphalt and 760 lineal feet curb and gutter; also at same time, paving on Wisconsin st., 1,608 square yards brick paving and 1,026 lineal feet curb and gutter.

**Wis., Racine**—Bids received by W. J. Hay, county clerk, until 2 p. m., April 6, for grading Stenson's hill, approximately 1,800 cubic yards; check for 10 per cent.

**Wis., Racine**—Bids received by P. H. Connolly, chairman of the board of public works, until 10 a. m., April 4, for paving Thurston av., 7,680 square yards paving and 4,030 lineal feet combined curb and gutter, with either brick, asphalt or asphaltic concrete.

**Wis., Racine**—Bids received by P. H. Connolly, chairman board public works, until 10 a. m., April 11, on 7,221 square yards brick paving on Barker st., 2,902 lineal feet combined curb and gutter, 580 lineal feet concrete gutter.

**Wis., Richland Center**—Bids received by Reuben Sutton, city clerk, until 4 p. m., April 11, for approximately 6,056 square yards reinforced concrete paving, 1,683 lineal feet, combination curb and gutter, and 260 lineal feet concrete water way; E. J. Lunenschloss, city engineer.

**Wis., Superior**—Bids received by A. F. Chadwick, chairman board public works, until 1 p. m., April 1, for grading or regrading and paving or repaving Cumming av., either with reinforced concrete, sheet asphalt, asphaltic concrete or creosoted blocks.

#### CONTRACTS AWARDED.

**Iowa, Bettendorf**—Contracts awarded as follows: 2,636 square yards concrete to Aug. Kooheman of Muscatine, Iowa, at \$1.03 per square yard and 8,716 square yards brick to McCarthy Improvement Co., of Davenport, Iowa, at \$1.80.

**Iowa, Cherokee**—Contract to Bryant Asphalt Paving Co., Waterloo, for 42,300 square yards paving at \$1.66 per yard for natural lake asphalt on concrete base of 4 inches.

**Iowa, Monticello**—Contract with L. J. Hahn, Cedar Rapids, for 12,400 square yards dollarway paving at \$1.34 and 10,325 feet 18-inch curb and gutter at 45c; M. Tschirgi & Sons, Cedar Rapids, engineers.

**Minn., Duluth**—Contract with Purington Paving Brick Co., Galesburg, Ill., for brick paving at \$33,000, and to D. H. Clough & Co., city, for asphalt filler at \$17.25. Other bidders: The Barr-Clay Co., for brick at \$33,600, and for the filler, Standard Oil Co., at \$18 and Standard Asphalt & Rubber So., at \$25.90.

**Minn., Duluth**—Contract with John Bergman, city, for sub-grade on Duluth-Moorhead road at \$48,560. Wheeling Corrugating Co. for metal culverts at \$2,795, and Illinois Steel Bridge Co., at \$7,180 for the bridge.

**Minn., Mankato**—Contract to Thos. Brogan, St. Peter, for grading 4th st., at \$4,597.

**Mont., Bozeman**—Contract with Warren Construction Co., Portland, Ore., for paving on 6th av.

**Mont., Plentywood**—Contract for road work to Chamberlain Road Machine Co., Hutchinson, Minn., at \$3,600.

**Neb., Kearney**—Contract let to John A. Beebe of Omaha, for paving in districts 2 and 3; other bidders were I. E. Doty, David

City; Berger Construction Co., Hastings; Samuel Friedman, Omaha; Dan Quinton, city.

**S. D., Deadwood**—Contract with Wm. Butler of Lead for the road in Strawberry Gulch between Lead and Terry at \$17,697; other bids were Parrish & Son, \$17,369 with pay for overhaul; Mullen & Rourke, \$18,812; Ed. Manion, \$18,997.

**Wis., Fond du Lac**—Contract with G. H. Stanchfield, city, and Franz Radloff, Plymouth, for South Park av., and Marquette st. pavements at \$40,508.

**Wis., Kenosha**—Contract with the C. Peterson Construction Co., city, improving Dayton and Middle sts., at \$22,947. The bid of Jas. Cape & Sons, Racine, was \$23,954.

## New Firms Incorporated

*Notes arranged alphabetically by states.*

**Minn., Duluth**—Cameron-Johnson-Horgan Furniture Co., \$50,000.

**Minn., Minneapolis**—Sterling Specialty Co., \$50,000; Thos. E. Hanson.

**Mont., Billings**—Montana Mill & Elevator Construction Co., \$25,000; C. H. Root.

**Mont., Broadview**—Broadview Farmers' Elevator Co., \$15,000; Thos. Harrison.

**Mont., Butte**—Mountaineer Welding Co., \$30,000; W. E. Curry.

#### BUSINESS BUILDINGS.

**Neb., Grand Island**—J. D. Martin has engaged Architect Kirschke to draw plans for a business building he will erect on W. 3d st.

**Neb., Grand Island**—Architect Good has completed plans for building for Fred Roth; large, modern, 2-story with gray iron spot face brick.

**Neb., Hartington**—Misses Abbie Newberry and Helen Schwichtenberg of Norfolk, Neb., will erect a 2-story brick building here, and open a stationery store.

**Neb., Hartington**—J. G. Beste has started erection of a modern fireproof building.

**Neb., Kearney**—Concrete foundation has been completed for new Bartz building.

**Neb., Minden**—Joseph Pinkham will erect a modern brick business block.

**Neb., Oakland**—Excavations have been begun on a 2-story brick, for Alex. Hammerstrom, modern, bluish gray hard brick, with white stone trimmings.

**Neb., Ord**—W. B. Keown is having plans drawn for a brick business block.

**Neb., Pierce**—A. W. Klug will erect a large cement block implement house.

**Neb., Rushville**—Lund & Glarum, Alliance, have contract to erect building for D. M. Gauley, 100x110, to be used for opera house, skating rink and garage; cost \$18,000.

**Neb., Sunol**—R. W. Brown and Dan Quinton of Kearney, have begun work on new bank building, Hastings pressed brick.

**Neb., Scribner**—F. H. Ranslem has let contract for erection of a large brick building.

**Neb., South Sioux City**—Work has started on the Hazelgrove store building; Fred Mershon, contractor.

**N. D., Medina**—F. J. Redmer will remodel brick block.

**N. D., Regent**—General stores of Enge & Co., and H. H. Eckland, burned; loss \$3,000.

**N. D., St. Thomas**—Six buildings were destroyed by fire in business district; loss, \$85,000.

(Additional Business Buildings page 35.)

## Parks and Cemeteries

*Notes arranged alphabetically by states.*

**Iowa, Waterloo**—The Water Works trustees granted requests of the Chautauqua Park residences and ordered an extension of water mains from Burton av. to and including the park.

**Wis., Janesville**—Plans for remodeling present grandstand, erection of two horse stables, permanent horticultural, women's building and construction of cattle and swine barns are being taken up by Park association.

**Wis., Racine**—The Public Park board has proposed to dam Root River at Cedar Bend; cost about \$5,000.



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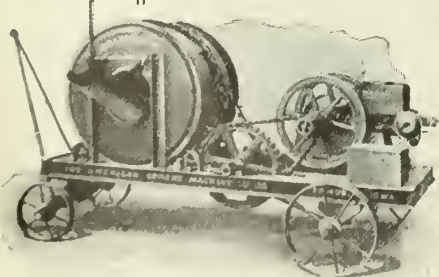
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## Drainage and Irrigation

*Notes arranged alphabetically by states.*

**Iowa, Newton**—Drainage ditch proposed from Kellogg bridge to south county line declared a necessity and Engineer Byers began survey.

**Minn., Aitkin**—Hearing 1 p. m., April 7, on proposed county ditch. J. B. LeMire, county auditor.

**Minn., Carlton**—Hearing April 6, 10 a. m., on proposed judicial ditch; J. B. Thomson, clerk of court.

**Minn., Eveleth**—Work will start soon on large state drainage project between Zim and Kelsey south of here; 40 miles, section line ditches with ditches on 40-acre line; 25 square miles to be reclaimed along D. M. & N. road.

**Minn., Fairmont**—Hearings on judicial ditches 42 and 43, Monday, March 30. E. R. Flygare, clerk of court.

**Minn., New Ulm**—Frazer & Danforth, contractors, St. Paul, will start construction soon on Renville county ditch; 5.11 miles of 54-inch conduit; F. D. Minium, engineer, New Ulm.

**Mont., Billings**—About \$175,000 will be spent on Huntley reclamation project, \$56,000 on extension of canals; jetty to be built in Yellowstone river; 2,700 lineal feet of laterals, 100-foot cutoff in Fly creek.

**Neb., Bertrand**—Favorable action taken by government on proposed irrigation system, for Phillips, Gosper and Kearney counties. Government engineer will be sent soon.

**Neb., Tekamah**—Supervisors reporting in favor of drainage ditch, Washington and Burt counties.

**Wis., Appleton**—Hearing April 20, on petition for drainage district in 5 townships, Outagamie county, Wis., to be known as Black Creek district, A. O. Danielson, clerk, circuit court, Appleton.

### BIDS WANTED.

**Iowa, Algona**—Bids received until 1 p. m., March 31, for joint district 36, bonds within 20 days; check 10 per cent; A 1 cement, A 1 well burned clay and vitrified tile to pass Iowa standard; B. E. Norton, auditor, Kossuth county.

**Iowa, Atlantic**—Contract to be let soon by Shelby county for straightening Indian Creek, south line of county, to north line Cass; J. H. Mayne, engineer.

**Iowa, Harlan**—Bids received till 10 a. m., April 8, for construction of drainage ditch and laterals along Indian creek; section on 200,000 yards; section 2, 1,000 yards; 3 19,000; 4 3,800; 5 850 yds.; check for \$105; completed Feb. 1, 1915; E. A. Schell, auditor, Shelby county.

**Iowa, Washington**—Bids received until 12 m., April 6, for constructing district 4, Lime Creek township, to be completed July 20, 1914, no bids to exceed \$4,200; H. W. Benn, auditor, Washington county.

**Minn., Alexandria**—Bids received until 10 a. m., April 3, for repairing and cleaning judicial ditch 2. E. J. Brandt, county auditor.

**Minn., Le Sueur Center**—Bids received until April 11, for digging and constructing unfinished part of branch ditch 5 with branches A and B estimated cost \$3,086; excavation, 25,900 cubic yards; bids for one job or sections, bonds for full amount of contract, J. H. Kalsersatt, auditor, Le Sueur county. Ozaukee county ditch, Otto Dollert, Saukville, town chairman, date not set.

**Minn., Slayton**—Bids received until 2 p. m., April 7, for digging and constructing ditch No. 35, Murray county; estimated cost, \$11,142. W. A. Seeman, county auditor.

**Mont., Helena**—Montana Reservoir & Irrigation Co. are receiving bids on second unit of their irrigation project, adjacent to this city. Will reclaim about 12,000 acres; two main canals 25 miles; pumping station on Lake Helena; secretary of the Commercial Club can give further information.

### CONTRACTS AWARDED.

**Iowa, Algona**—Robert Sidney, Algona, who has contract for district 91, north of Sexton at \$26,123, is preparing to start work; also Morris & Fischer, Lone Rock, contractors of district 92, at \$19,026; also Littell & Berkeland, Algona, contractors of 95, at \$18,244, with repair work, in district No. 2, at \$3,065.

**Minn., Buffalo**—Contract awarded to S. E. Anderson, Waverly, Minn., for county ditch

19, at \$6,000. J. E. Van Kremlin, Watertown, Minn., engineer.

**Minn., Crookston**—Contract awarded to Peterson & Olson for county ditch 91 at \$13,462, or 24 cents a yard for ditch work and 5 a mile for road work; work surveyed by J. E. Behm, county surveyor.

**Mont., Billings**—Contract awarded to Security Bridge Co. for 40-foot concrete siphon, at poor farm for irrigation; bids will be taken soon on 2,500 feet of pipe to carry water from Grey Eagle ditch to municipal swimming pool.

**Neb., Bayard**—Contract awarded to J. L. Mullen for drain ditch Nine Mile creek to river.

## Water Works

*Notes arranged alphabetically by states.*

**Alta., Calgary**—Commissioner Graves will present a by-law to council for water mains extension to cost \$250,000.

**Iowa, Coin**—Commercial club considering water works for the town.

**Iowa, Oakland**—A new water system will be installed here.

**Iowa, Waterloo**—About 6,000 feet of water main extension were ordered laid in various parts of city, and 1,500 feet in Chautauqua Park.

**Mont., Clyde Park**—Election April 6, to vote on issuing bonds for a water works system.

**Neb., Blue Hill**—Water mains will be extended.

**Neb., Brunswick**—Plans will soon be made for the new water system and pumping station.

**Neb., Dakota City**—Council has voted \$10,000 for water works and fire apparatus.

**Neb., Gering**—International Bridge & Construction Co., of Tecumseh have been awarded contract for water works system.

**Neb., Gretna**—City is planning on installing a motor to replace engine in operating the water works pump.

**Neb., Maskell**—A system of water works is badly needed as the citizens are without fire protection.

**Neb., Norfolk**—Council has been petitioned for a special election to vote on water bonds for \$10,000.

**Neb., Oakland**—A new city well will be dug.

**Neb., Ord**—Election April 14, to vote on issuing bonds for \$18,000 for water works extensions; Ira D. Tolen, city clerk.

**Neb., Palmyra**—A vote will be taken April 7, on issuing bonds for \$5,000 for a water works system; W. E. Vaughn, village clerk.

**Neb., Potter**—It was voted to install water works.

**Neb., St. Paul**—A petition is being circulated asking for a special election to vote on water works bonds.

**Neb., Wayne**—A new pump at the power plant is necessary to insure the local water supply and a bond issue is proposed to buy same.

**Neb., Wayne**—City council agitating question of issuing bonds to buy a new pump for water plant and improve standpipe.

### BIDS WANTED.

**Iowa, Perry**—Bids opened April 6, for 7-152 feet 4-inch water mains; 7 fire hydrants and 2 gate valves; plans and specifications can be had from Chas. E. Wilson, civil engineer, Perry, Iowa.

**Minn., Sanborn**—Bids received by D. G. Klein, village recorder, 8 p. m., April 15, for construction and completion of water works system consisting of water mains and water tank; plans by W. D. Lovell, 1415 8th st. SE., Minneapolis; check for \$1,000.

**Minn., Wadena**—Bids received by J. H. Rice, recorder, 7:30 April 1, for cementing and waterproofing village well, diameter 20 feet depth 22 feet.

**Neb., Rushville**—Bids received by H. L. Jacobs, 2 p. m., March 27, for a steel tower and tank for water works plant.

### CONTRACTS AWARDED.

**Iowa, Hartley**—Contract for boring town well has been let, will be 200 feet deep, 34 inches at top and 24 at bottom.

**Iowa, Woodbine**—Contract for extension of water mains and erection of water tower let to Rock Island Steel & Iron Works Co.; cost \$5,000.

**Minn., Eveleth**—Contract for catch basin and boiler awarded to Gogebic Steam Boiler Works, Duluth, at \$3,577.

**Minn., Excelsior**—Contract for steel tower and tank for water works awarded to Chicago Bridge & Iron Works; for pipe line to National Co., Albert Lea, Minn.; pump house and pump motor to W. M. Morse, Excelsior.

**Minn., Spooner**—Contract will soon be let for a water works system; plans by Duluth Engineering Co., Duluth.

## Sewers

*Notes arranged alphabetically by states.*

**Alta., Ogden**—Council will build sewer and sewage disposal plant to cost \$95,000; address city clerk.

**Ida., Boise**—Notice of intention to create new sewer districts being published; sewers to cost \$88,000; Nancy E. Robertson, city clerk.

**Ida., Mountain Home**—Ordinance passed to install sewers to cost about \$25,000; glazed sewer pipe with joints in cement below frost line; Stanton Park, city engineer.

**Iowa, Denison**—Hearing in near future on sewers in various streets; E. F. Tucker, city clerk.

**Iowa, Grinnell**—City will readvertise for bids on system of main sewers; Iowa Engineering Co., Clinton, Iowa.

**Iowa, Guthrie Center**—A \$40,000 sewer system will be built here as a result of recent plans and conferences; E. J. Kilgore, mayor.

**Iowa, Mason City**—A disposal plant and intercepting sewer must be built at a cost of \$100,000 or more; Fred P. Wilson, city engineer; report of state engineer now awaited.

**Iowa, Sheffield**—Plans for sewer system and water works are being prepared by E. E. Harper, engineer, Grand av. Temple, Kansas City, Mo.

**Iowa, Sioux City**—Council adopted resolutions for sanitary sewers in W. 6th st.; address city clerk.

**Minn., Park River**—Plans on file for a \$20,000 sewer system; address city clerk.

**Minn., St. Paul**—Plans completed by city engineering department for Hamline-Jefferson sewer, estimated to cost \$250,000. Oscar Claussen, city engineer.

**Mont., Miles City**—Hearing April 13 on 6-inch vitrified pipe sewers estimated to cost \$1,350; J. E. Farnum, city clerk.

**Neb., Atkinson**—Bonds carried for sewers to cost \$14,000; address city clerk.

**Neb., Bridgeport**—Commercial club is urging \$15,000 sewer bond issue; address city clerk.

**Neb., Norfolk**—Plans for a storm sewer on Braasch av. are being prepared; address city clerk.

**Neb., Wayne**—Contract with O. S. Roberts for sewers No. 2 and 3.

### BIDS WANTED.

**Iowa, Burlington**—Bids received by Robert Kroppach, city clerk, about April 6, for approximately 20,000 lineal feet sewer, from 8 to 42 inches.

**Iowa, Burlington**—Bids received by H. G. Vollmer, city engineer, until 10 a. m., March 30, for a 9-foot reinforced concrete arch combined sanitary and storm water main trunk sewer, with the necessary appurtenances; check for \$500.

**Iowa, Davenport**—Bids received by city clerk until March 31, for proposed sewer and water service construction; check for \$100.

**Iowa, Little Rock**—Bids received by J. D. Kruse, town clerk, until 7 p. m., April 6, for 6-inch sewers in various streets and a 2-inch water pipe in same trench; check for both \$250.

**Iowa, Osage**—Bids received by city clerk until April 15 for a sewer system and disposal plant.

**Iowa, Sumner**—Bids received by E. A. Wisner, town clerk, until 7:30 p. m., May 6, for sewer work requiring 13,345 feet 8-inch sewer, 8,675 feet 10-inch, 1,460 feet 12-inch, 16" man holes and 16 flush tanks; M. Tschir-






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**Minn., Duluth**—Bids received by C. S. Palmer, clerk, until 10 a. m., April 3, for sanitary sewers in various streets; check for 10 per cent.

**Minn., Eveleth**—Bids received by A. P. Roper, city clerk, until 8 p. m., April 7, for 2,050 lineal feet sewer ditch; check for 10 per cent.

**Minn., New Ulm**—Bids received by A. J. Meyer, city clerk, until April 8, for sewers in various streets. F. D. Minium, city engineer.

**Mont., Bozeman**—Bids received by A. M. Brandenburg, city clerk, until 5 p. m., April 2, for storm sewers in special improvement district No. 75, approximately 2,800 lineal feet vitrified tile storm sewers, 8 to 18 inches, with branches and appurtenances, and 2,000 cubic yards excavation and also for 11,500 square yards paving with either standard bitulithic on a rock base, light standard bitulithic, asphaltic concrete on a concrete base, asphalt macadam or warrenite.

**Nebr., Grand Island**—Bids received by H. E. Clifford, city clerk, until 8 p. m., April 1, for sewer in district 42; check for 5 per cent.

**Sask., Saskatoon**—Bids received by city commissioners until April 10, for sewer pipe and specials; F. E. Harrison, mayor.

**Wis., Chippewa Falls**—Bids received by J. T. Tuohy, chairman board of public works until 2 p. m., April 4, for a main sewer in Main st., 951 feet 24-inch pipe laid at an average depth of 16 feet, 1,105 feet of 18-inch pipe laid at an average depth of 13 feet, 6 manholes, 18 catch basins and one concrete outlet.

**Wis., Racine**—Bids received by P. H. Connolly, chairman of board of public works, until 10 a. m., April 4, for sewers in 18th and other sts., requiring 404 feet 8-inch pipe, 315 feet 10-inch, 800 feet 12-inch, 745 feet 15-inch, 8 manholes and 16 catch basins.

#### CONTRACTS AWARDED.

\***Iowa, Kingsley**—Contract with A. A. Dobson Co., Lincoln, Neb., for clay sanitary sewers at \$15,000; K. C. Gaynor, engineer, Sioux City, Iowa.

**Iowa, Marshalltown**—Contract with R. A. Elzy for corrugated iron culvert pipe at \$2,775; part of the 36-inch pipe to be used in continuing North 3d av. storm sewer to river.

**Iowa, Ottumwa**—Contracts for sewers as follows: John W. Scott, Ottumwa, West End main sewer, \$17 lineal foot; John Quinn, Ottumwa, Blakes branch, \$13.85 lineal foot; other bid was Chas. Chilton, Ottumwa, West End sewer \$15.25 lineal foot; Blakes branch \$23.75 lineal foot; John T. Brady, engineer, City Hall, Ottumwa.

**Nebr., Bancroft**—Contract with J. H. Cathroe for sewer system.

**Nebr., Laurel**—Contract with M. A. Camery, Harlan, Iowa, for sewer system in district No. 1, and with C. B. Reynolds, Council Bluffs, Iowa, for disposal plant.

**Nebr., Ravenna**—Council will soon take action on bond issue for sewer system.

\***Nebr., Wayne**—Contract with Owen S. Roberts, city, for 4,000 feet of 8-inch sanitary sewer; J. M. Cherry, city clerk.

**Wis., Appleton**—Contract made with Aylward & Sons Co., Neenah, for 36 basket top basins \$5 each, 30 straight catch basins \$6 each, 10 corners 5 foot radius \$6 each, 60 manhole covers \$4.45 each.

**Wis., Racine**—Contract with Patrick Cavahan for the Barker st. and Quincy av. sewers, and with Andrew Thompson for sewers in Carmel and Thorvaldsen avs.

## Bridges

*Notes arranged alphabetically by states.*

**Iowa, Algona**—County board resolved to erect 11 bridges; objections heard April 6; B. E. Norton, county auditor.

**Iowa, Davenport**—Board of supervisors of Scott county resolved to erect 3 reinforced concrete bridges; objections heard April 6; Edw. Collins, county auditor.

**Iowa, Perry**—Supervisors of Dallas county resolved to construct 26 concrete bridges and culverts. Hearing Mar. 28. M. T. Finley, county auditor.

**Iowa, Rock Rapids**—Board of supervisors of Lyon county rejected all bids for construction of 60 concrete culverts, and will dispose of the matter at a later meeting.

**Minn., Duluth**—The building of a roadway or bridge spanning the net work of railroad tracks east of Garfield av. is suggested by business men of the west end headed by S. W. Hill.

**Minn., St. Cloud**—Bridge over Mississippi at Sauk Rapids will be repaired at a cost of \$3,000.

**Minn., St. Cloud**—A concrete arch bridge is discussed for 4th st. ravine.

**Minn., St. Paul**—The Association of Commerce, J. H. Beek, secretary will be asked to aid in securing the widening of the Robert st. bridge.

**Mont., Big Timber**—Plans will be drawn for a bridge across Yellowstone west of town; \$22,000; County board.

**Mont., Dillon**—Modern steel bridge will replace wooden bridge over Big Hole river at Divide to be built by Silver Bow and Beaverhead counties; cost, \$12,000. W. T. George, county surveyor, Beaverhead county.

**Mont., Fallon**—Commercial club started a movement for a bridge over Fallon Creek.

**Mont., Fromberg**—County board making preliminary plans for a bridge, reinforced concrete, 3 60-foot spans here; estimated cost \$10,000.

**Mont., Great Falls**—Alderman Peter P. Pogreba presented petition to council for bridge over Missouri.

**Nebr., Gordon**—Canton Bridge Co., Kansas City, received contract for building bridges in county for 1914.

**Wis., Manitowoc**—New proposition on widening of 8th st. bridge draw submitted to council; would defer new bridge; plan is to build apron on cantilever principle; City Engineer Pitz, preparing plans.

#### BIDS WANTED.

**Iowa, Alton**—Bids received by Herman T. Paske, county auditor, 2 p. m., April 7, for furnishing material and building 11 bridges and 16 culverts; check for 5 per cent; plans by state highway commission.

**Iowa, Anamosa**—Bids received by E. J. Hines, county auditor, 10 a. m., April 7, for 5 culverts and 7 bridges; check for 5 per cent.

**Iowa, Garner**—Bids received by W. L. Fitkin, county auditor, 10 a. m., March 30, for culvert material for roads and highways of Hancock county for year 1914; price f. o. b., any station in said county.

**Iowa, Sioux City**—Bids received by E. E. Hosmer, county auditor, 12 m., April 7, for bridges as follows: two 40-foot bridges steel truss with concrete floors and abutments, one has alternate plan for a 40-foot concrete girder, 2 60-foot steel truss spans with concrete floors and abutments, 1 60-foot steel truss span with wood floor, steel tubular piers, I. B. approach, 1 65-foot steel truss with concrete floor and abutments; check for 5 per cent.

**Minn., Bemidji**—Bids received by J. L. George, county auditor, 2 p. m., April 7, for installing and furnishing 113 culverts; check for 10 per cent.

**Minn., Blue Earth**—Bids received by county board, 1 p. m., Mar. 30, for culverts on roads to be constructed. Check for 5 per cent. S. C. Armstrong, state road engineer, Fairmont, Minn.

**Minn., Center City**—Bids received by A. F. L. Stromberg, county auditor, 3 p. m., April 16, for building state bridge No. 1176 on state road No. 4, town of Sunrise, superstructure will be double 30-foot beam span, 18-foot roadway, concrete floor on concrete and steel foundations; check for 5 per cent plans by state highway commission.

**Minn., Duluth**—Bids received by O. Halden, county auditor, 2 p. m., April 6, for county road work and two wooden bridges.

**Minn., Eveleth**—Bids received by A. Romer, city clerk, 8 p. m., April 7, for constructing concrete slab bridge; check for 10 per cent.

**Minn., Manganese**—School board is contemplating a new school building. Address the secretary of the board.

**Minn., Minneapolis**—Bids received by Al. Erickson, county auditor, 11 a. m., April 6, for removing old bridge No. 115 and building a new one on road No. 6, in the village of Golden Valley; check for 5 per cent.

**Mont., Havre**—Bids received Mar. 30, 10 a. m., for bridges over Milk river, Cottonwood Coulee, over Marais river, Pugsley's ranch, over Marais river at Turner's ranch, Hill

county. Check for 5 per cent. John Devine, county clerk.

**Mont., Plentywood**—Bids received by Ben Johnson, clerk, 2 p. m., April 13, for furnishing county three cars corrugated galvanized iron culverts, one f. o. b. Outlook, one at Bainville and one at Plentywood; check for \$250.

**Mont., Twin Bridges**—Bids received by W. H. Thomas, clerk, 1 p. m., Mar. 28, for galvanized American ingot iron culvert pipe, carload lots.

**N. D., Bismarck**—Bids received by T. E. Flaherty, county auditor, 2 p. m., April 6, for grading the approaches to the L. A. Larson bridge; check for 5 per cent.

**N. D., Cando**—Bids received by F. F. Vaughn, county auditor, 9 a. m., April 7, for metal culverts required this year. Check for \$100.

**N. D., Fessenden**—Bids received by Fred B. Paul, county auditor, April 6, 3 p. m., for three steel bridges: 1 40-foot span steel, concrete abutments, 18-foot wide and 12 feet high, over James river, between sections 2 and 11, township 150 R. 71; one 40-foot span steel girder, 18x16, over Cheyenne river between sections 2 and 11, township 150, E. R. 71; one 24-foot span steel bridge, 18x8, over James river, between sections 20 and 21, township 149 R. 71; check for 5 per cent.

**N. D., Hillsboro**—Bids received by Nels O. Lindaas, 3 p. m., April 8, for furnishing all material and labor for steel, concrete and wooden bridges to be built in county for 1914; check for \$100.

**N. D., Minnewaukon**—Bids received by W. E. Paulson, county auditor, 10 a. m., April 1, for a steel bridge 28 feet long, 18 feet wide, 28-foot piling across coulee on township line between section 2 and section 36, and one steel bridge 24 feet long, 18 feet wide, 28-foot piling between sections 12 and 13; check for \$50.

**S. D., Hot Springs**—Bids received by county auditor, D. K. Batchelor, 12 noon, April 9, for all bridges to be constructed in county in 1914. Check for \$1,000.

**N. D., Napoleon**—Bids received by Carl Kaz, county auditor, 2 p. m., April 7, for steel galvanized corrugated culverts. Check for \$50.

**Wis., Racine**—Bids received by W. J. Hay, county clerk, 2 p. m., April 4, for furnishing and building following bridges and culverts: 5 22x24x22 reinforced concrete culverts; 2 24x24x22 reinforced concrete culverts, 1 reinforced concrete bridge, 10-foot span, 20-foot roadway on Union Grove road, town of Yorkville; 1 6x6x22 and 1 3x2x30 reinforced concrete culverts and 3 2x2x22 reinforced concrete culverts in town of Caledonia; bids to be made price for each culvert and each bridge; complete; check for 10 per cent payable to Jos. Patrick, treasurer.

#### CONTRACTS AWARDED.

**Iowa, Knoxville**—Contract for bridges let for the year; Federal Bridge Co., Des Moines, steel bridges, \$17,976; Marsh Engineering Co., Des Moines, concrete bridges, \$18,700; A. Phelps, Knoxville, concrete bridges, \$6,995; Thor Construction Co., Cedar Falls, \$5,837.

**Iowa, Le Mars**—Western Bridge Co., of Omaha, received contract for bridge work for year; contract with Des Moines Bridge & Iron Works for reinforcing steel and bridge material rescinded and awarded to R. O. Beck.

**Minn., New Ulm**—Contract for Windhorn bridge over Cottonwood river let Wm. O'Shea & Sons, Minneapolis at \$6,222; and for bridge in Prairieville over judicial ditch No. 1 to F. C. Koehne, Sleepy Eye, \$1,040.

## Public Buildings

*Notes arranged alphabetically by states.*

*Items marked with asterisk not in daily sheets.*

**Alta., Calgary**—It is said contract for federal building will be let early in May; cost \$100,000.

**Iowa, Fort Madison**—City will soon begin erection of municipal depot for river freight and passenger business; cost \$2,500; address city clerk.

**Iowa, Rock Rapids**—Petitions in circulation for submission of proposition for new court house at June primary.

**Minn., Mountain Iron**—Charles K. Shand, architect, Virginia, Minn., retained to prepare plans for proposed library.

**Minn., New Ulm**—Albert Schippel, architect, Mankato, is revising plans for armory,



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**Mont., Butte**—Dr. W. F. Cogswell, secretary state board of health, will recommend a new up-to-date city jail be built; address city clerk.

**Mont., Wilsall**—County commissioners will build a jail; address county clerk, Livingston, Park county.

**Neb., Wahoo**—Grand jury recommends building of modern jail for Saunders county to cost \$20,000; address county auditor.

**N. D., Lakota**—Proposition to bond city to build city hall, jail and fire engine house carried; address city clerk.

**Ore., Portland**—Supervising architect at Washington, D. C., will submit data at once to architects for competitive plans for new federal building here, not to cost more than \$1,000,000.

**Wash., Walla Walla**—Report filed by Harry A. Reynolds, county commissioner, for a new court house to cost not to exceed \$150,000.

**Wis., Oshkosh**—Old Ladies home burned; loss \$8,000.

**Wis., Taycheedah**—Phelps Wyman, landscape architect of Minneapolis, will design landscape features for the state board of control.

**Wis., Weyauwega**—Voters will vote April 7, on project for city hall to cost \$5,000.

#### BIDS WANTED.

**Mich., Cadillac**—Bids received by O. Wendroth, supervising architect, Washington, D. C., until 3 p. m., April 27, for building complete, including mechanical equipment, interior lighting fixtures and approaches of the U. S. postoffice at Cadillac, Mich. The building is 1-story and basement, having a ground area of approximately 6,140 square feet, stone facing; tin roof; fireproof construction.

**\*Minn., Anoka**—Bids received by state board of control, John Coleman, superintendent, Anoka, for erection and completion of cottages 8 and 9 at Anoka state asylum, C. H. Johnston, architect, 715 Capital Bank building, St. Paul, Minn., check for 4 per cent. Officially advertised in the Improvement Bulletin this week.

**Minn., Fairmont**—Bids received by Capt. E. N. Chute, Company E, Minnesota National Guard, about April 15, on an armory, 60x120, 2-story, \$18,000; Geo. Pass & Sons, architects, Mankato.

**Minn., St. Paul**—Bids received by Oliver J. Tong, secretary, Ramsey board of control, until noon, April 13, for county alms house; Buechner & Orth, architects, Shubert building, St. Paul; check for \$2,500.

**Minn., St. Paul**—Bids received by John Caulfield, purchasing agent, until noon, April 6, for three buildings in the water department; separate bids at same time on heating, plumbing and electric work; check for 10 per cent.

**N. D., Cando**—Bids received by F. F. Vaughn, auditor Townier county, until 5 p. m., April 8, for two boilers in court house; check for \$100; also, at 1 p. m., April 9, for a coal shed at court house; check \$25.

**N. D., Minot**—Bids received for U. S. post-office building as follows: S. F. Powers, Fargo, N. D., limestone \$128,425, limestone with terra cotta arches \$129,450; John Lauritzen, Fergus Falls, Minn., limestone \$124,650, sandstone \$134,650; J. H. Wise, Omaha, Neb., limestone \$126,390; limestone with terra cotta arches \$128,780; General Contracting Co., Milwaukee, Wis., limestone \$133,668, sandstone \$137,568, limestone with terra cotta arches \$132,968, sandstone with terra cotta arches \$136,868; Leigland, Kleppe & Co., Great Falls, Mont., limestone \$178,300, sandstone, \$151,300, limestone with terra cotta arches \$150,900, sandstone with terra cotta arches \$182,900; G. W. Stiles Construction Co., Chicago, Ill., limestone \$129,735, sandstone \$137,735, limestone with terra cotta arches, \$131,735, sandstone; with terra cotta arches \$139,735; William O'Neil & Son Co., Fairbault, Minn., limestone \$133,186, limestone with terra cotta arches \$133,186; O. H. Olsen, Stillwater, Minn., limestone \$132,988, sandstone \$137,350, limestone with terra cotta arches \$135,758, sandstone with terra cotta arches \$138,151.

**S. D., Aberdeen**—Bids received by F. W. Raymond, auditor, until 10 a. m., April 20, for wood furniture, until April 27, for the electric light fixtures and until May 11, for the steel furniture; check for 5 per cent on each; Geo. F. Fossum, architect, Aberdeen, S. D., officially advertised in this issue of the Improvement Bulletin.

**Texas, Bryan**—Bids received by O. Wendroth, supervising architect, Washington,

D. C., until 3 p. m., April 30, for construction complete including mechanical equipment and approaches of the U. S. postoffice at Bryan, Texas; 1-story and basement; ground area, 3,700 square feet; non-fireproof construction throughout; stone and brick facing; tin and composition roof.

**Wis., Peshtigo**—Bids received by Elwood N. Wazek, city clerk, until 7 p. m., April 4, for city jail.

**Wyo., Lander**—Bids received by H. M. Farlow, county clerk, until April 7, for a vault room addition on north end of court house.

#### CONTRACTS AWARDED.

**Iowa, Tama**—Contract with A. L. Beal, city, for city hall, at \$7,047; other bidders were: C. W. Ennis and M. B. Turbett, Toledo.

**Minn., White Bear**—Contract to C. E. Davies for building library at \$5,000 complete.

**S. D., Flandreau**—Contract to H. W. Adron, for new postoffice building at \$2,500; 25x60, 14-foot ceiling.

## Theatres and Halls

Notes arranged alphabetically by states.

**Ida., Weiser**—Tentative plans for \$10,000 hall for local camp of Woodmen of the World have been drawn.

**Iowa, Algona**—Site purchased by Masons and a temple to be built.

**Iowa, Dubuque**—Elks' Home Building Co. increased stock from \$30,000 to \$100,000 to be expended on proposed Elks' home; John W. Schwind, president and Samuel D. Lindsay, secretary.

**Iowa, Fort Madison**—Empire theater, owned by J. H. Schwartz, undergoing extensive repairs.

**Iowa, Fort Madison**—Eagles will purchase site and build lodge home; 3-story and basement, brick, stone, steel and cement.

**Iowa, Grundy Center**—C. H. Johnson, the owner, city, is receiving figures for a moving picture theater; 50x90, 2-story and basement; seat 450; R. R. Mayberry, architect, Cedar Rapids, Iowa.

**Iowa, Ida Grove**—Theater and store building to be erected at once; J. D. Warnock, owner.

**Iowa, Monticello**—Proposition being discussed to build Masonic Temple to cost from \$15,000 to \$20,000.

**Iowa, Montrose**—Opera house and other buildings destroyed by fire; loss \$60,000.

**Iowa, Rippey**—Odd Fellows voted to erect lodge building.

**Iowa, Vinton**—F. J. Burdette expects to begin soon on new theater on W. Jefferson; 63x120, seating capacity of 790.

**Iowa, Wellman**—F. D. Snively will build a hall and store.

**Minn., Anoka**—Reported that an open air theater will be built here similar to the one at Berkeley, Cal.; cement construction, seat 1,500; address the mayor.

**Minn., Rochester**—Plans completed about April 1st, by E. H. Ellerbe, Endicott Arcade, St. Paul, for remodeling store into a theater; cost \$20,000; owned by J. E. Reid, 27 S. Grant st., Rochester.

**Mont., Billings**—Country club will build club house; J. R. Swearingen, trustee.

**Mont., Geraldine**—G. W. Morrow of the Milwaukee Land Co. has completed arrangements for an opera house to cost \$25,000.

**Mont., Livingston**—C. S. Hefferlin, local banker, has announced he will spend \$25,000 in improving the opera house.

**Mont., Livingston**—A. W. Miles announces definitely he will build large modern theater this summer, corner 2d and Callender sts., seating 1,200 people; E. P. White, manager.

**Neb., Alliance**—\$15,000 Elks' lodge building proposed.

**Neb., Hay Springs**—C. H. Sailor will draw plans for Odd Fellows building.

**Neb., Kearney**—Township board of Delight township considering building a town hall.

**Neb., Omaha**—Druid Camp Woodmen of World purchased site and secured plans from J. P. Guth, architect, for 2-story and basement building, 100x100, to cost \$35,000; figures taken first of next month.

**Neb., Omaha**—W. E. Chambers planning to build amusement building; dance halls, assembly and teaching rooms, swimming pools.

**Neb., Rushville**—Carl Tichenhagen and Art. Ladd begun work on cement opera house block, city electric light plant and garage.

**Neb., Wayne**—Walter Savidge contemplates building theater, private plans.

**Neb., York**—Country club will commence about April 1, to erect building and beautify club grounds.

**N. D., Devils Lake**—Trustees of Minnewaukan lodge, A. F. & A. M., have been directed to purchase lots for proposed temple; building to cost \$35,000; A. V. Haig, worshipful commander.

**N. D., Minot**—King Solomon Encampment No. 21, I. O. O. F., will make strong bid to have the \$100,000 widows' and orphans' home to be constructed by the order of the state, located here.

**Sask., Moose Jaw**—The Moose Temple Co. decided to commence building operations on their hall at early date.

**S. D., Beresford**—Plans completed by E. H. Sund, Andrus building, Minneapolis, for home for Odd Fellows; S. O. Standland, city, A. A. Alwin, Red Wing, Minn., member of building committee.

**S. D., Mitchell**—Gale theater burned; loss \$80,000.

**Wash., Seattle**—Working plans for Pantheas' theater, prepared by B. Marcus Pretica, architect, will soon be completed; estimated to cost \$260,000.

**Wis., Port Washington**—Plans in progress by John Menge, Milwaukee, for theater, the name of whose owner is withheld; 37x120, 1-story and basement.

**Wis., Hortonville**—Sketches completed by Robert Messner & Bro., architects, Milwaukee, for opera house to be built by Hortonville Hall association, care E. A. Graef.

**Wis., La Crosse**—City commission ordered minor changes in auditorium or Liberty hall an iron stairway among other things.

**Wis., Menasha**—Menasha aerie of Eagles have completed details for purchase of site for new club house.

**Wis., Waukesha**—Plans being drawn for \$12,000 addition to Elks' building.

**Wis., Wauwatosa**—Plans completed for new club house of Women's club; Kirchoff & Rose, architects, Milwaukee.

#### BIDS WANTED.

**Iowa, Sibley**—Figures will be taken at once on lodge and store building, owned by Tregillus & Meader, city; 71x83, 2-story and basement; \$20,000; F. E. Colby, architect, New Davidson building, Sioux City, Iowa.

**Iowa, Washington**—Bids received by Wm. Sutherland, chairman, committee, until noon March 28, for remodeling Odd Fellows' hall; check for \$100.

**Mich., Escanaba**—Bids received by Delta lodge, A. F. & A. M., until May 1, for a Masonic Temple; 50x90, 3-story, cost \$20,000; D. S. Colburn, architect, Menominee, Mich., care of D. Halbert; steel beams and columns, ornamental iron and iron fire escapes, pressed brick, steam heat, electric light, sheet metal skylights, ventilation, tin roof, patent and ornamental plaster, metal lath bead, wired glass, tile and maple floors, birch finish; building to be remodeled; John Lindsay, Escanaba, to do general work by the day; other work to be let by contract.

**Minn., Comfrey**—Bids received by Farmers' State Bank about April 10, for hall and bank building; 50x59, 2-story and basement, cost \$8,000; H. C. Gerlach, architect, Mankato; particulars from J. H. Dickman, Mountain Lake, Minn.

#### CONTRACTS AWARDED.

**Alta., Calgary**—Contract let to McDougall & Foster for removing picture theater to be built by O. G. Devenish and to cost \$45,000.

**Iowa, Cambridge**—Contract with E. D. Fitzgerald, Boone, for opera house to be built here; 52x120; Odd Fellows will have a hall room in the second story.

**Minn., St. Paul**—Contract for combined armory and club house for St. Thomas college awarded to Butler Bros., St. Paul, Minn., at \$70,000.

**Wash., Tacoma**—Contract with J. E. Bonnell, 760 Commerce st., for John S. Baker theater building at \$24,900.

**Wis., Eau Claire**—Contract with Hoepfner-Bartlett Co. for new moving picture theater to be built by M. Hams and Leonard Seyberth.



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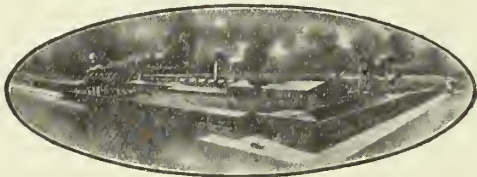
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## Hotels and Hospitals

Notes arranged alphabetically by states.

**Iowa, Ames**—Plans being prepared by architects of Des Moines for proposed hotel, 75 room, half with baths; Parley Sheldon interested.

**Iowa, Clarion**—Citizens raising \$4,000 to donate to some one who will build a suitable hotel before July 1, 1915; address the mayor.

**Iowa, Council Bluffs**—Plans in progress by F. E. Cox, architect, Baldwin building, for addition to hospital owned by St. Bernard's hospital, Sister Mary Catherine, mother superior; 40x100, three stories and basement, \$50,000.

**Iowa, Iowa City**—City authorities decided on isolation hospital; address city clerk.

**Iowa, Oakdale**—Bids received by F. S. Treat, secretary of board of control of state institutions, until noon, April 7, for a 3-story brick, stone-trimmed fireproof hospital building here.

**Iowa, Ricketts**—Gustav Schan will begin erection of new hotel at once.

**Minn., Bemidji**—Plans for the Markham hotel annex have arrived; annex to cost about \$40,000; to be built at once; F. S. Lycan, for particulars.

**Minn., Granite Falls**—Committee of seven appointed to arrange for a stock company to build \$50,000 hotel; J. S. Johnson, chairman.

**Minn., Mahanomen**—E. Bailey & Son planning to enlarge Mahanomen hotel.

**Minn., Warroad**—Plans completed by J. W. Ross & Sons, Grand Forks, N. D., for addition to hotel here, owned by S. A. Solvog; 36x36, brick, 3-story, giving hotel 40 rooms.

**Minn., Waseca**—Plans in progress by Alban & Lockhart, architects, St. Paul, Minn., for a hospital, owner's name withheld; 85x49; 3-story and basement.

**Mont., Billings**—County commissioners practically decided to build detention hospital on county farm; F. E. Williams, clerk, instructed to secure architects' sketches for fireproof building.

**Mont., Billings**—Plans in progress by Link & Haire, for city and county hospital; 2-story, \$25,000.

**Neb., Decatur**—Akin hotel burned; loss \$2,400; will not be rebuilt.

**Neb., Norfolk**—Final plans being started by J. C. Stitt, architect, city, on a state asylum, Leo. Matthews, secretary, board of control, Lincoln, Neb.; 40x80, 2-story and basement, \$55,000.

**N. D., Lakota**—Large new modern hotel is being considered on site of the Beach Inn, recently burned.

**N. D., Streeter**—Streeter hotel burned; loss \$5,300.

**Sask., Regina**—An addition of two stories, comprising 20 rooms, will be made to Victoria hotel; cost \$8,000; work to begin at once.

**Wis., Milwaukee**—Windsor hotel burned; loss \$133,000; owned by Mrs. Harriet L. Cramer.

**Wis., Oshkosh**—Old Ladies' home burned; loss \$25,000; Miss Lillian Hobart, matron.

### BIDS WANTED.

**Neb., Gordon**—Bids received until 6.10, April 4, by R. B. Hull, secretary, for brick Methodist Episcopal church. Plans with C. H. Saffor, W. L. Mills or O. E. Richardson. Check for \$200.

**Neb., Norfolk**—J. C. Stitt, architect, City, is ready for bids for hospital to be owned by Dr. P. H. Salter; 3-story, \$10,000.

### CONTRACTS AWARDED.

**Alta., Calgary**—Contract with A. A. Rose for extensive alterations and additions to Yale hotel; J. E. Burrell, architect.

**Iowa, Cedar Falls**—Contract to C. W. Smith, Waterloo, for memorial hospital building; cost \$40,000; part of material purchased, work to begin at once.

**Iowa, Waterloo**—Contract to F. W. Chapman, city, for proposed new county hospital for incurable insane, at \$24,100; other bidders were: F. J. Peterson, Waterloo, \$25,319; Orslov, Peterson & Co., Cedar Falls, \$27,893; H. A. Maine Co., Waterloo, \$29,263; Black Hawk Construction Co., Waterloo, \$25,989; C. H. Werner, Waterloo, \$26,808; Western Construction Co., Iowa City, \$24,930; only two bids received for heating and plumbing, Zock & Bentz of Waterloo bidding

\$6,450 and the Delehanty Co., Decatur, Ill., \$5,004.

**Minn., Jordan**—John Sunder has contract to do carpenter work on frame building which the Jordan Sulphur Springs & Mudbath Sanitarium Co. are building; 24x102, basement, 1-story.

**Neb., Norfolk**—Contract for Perry hotel has been let to G. E. Townsend, at about \$10,000.

**Neb., Omaha**—Contract for furnishing marble and tile for Pontanelle hotel; let to Sunderland Bros., at about \$50,000; general contractors are Selden-Breck Construction Co.

**Wis., Marshfield**—Contract with Krasin Bros. for a third story over annex to Hotel Blodgett; work begun.

## Schools

Notes arranged alphabetically by states.

Items marked with asterisk not in daily sheets.

**Iowa, Anamosa**—Election in the near future on building of a \$35,000 school building.

**Iowa, Bristow**—Special election was held and town voted to erect a new school house; cost, about \$15,000. Wm. Hutchinson, Guy Shotliff, directors.

**Iowa, Clarion**—Plans for school building at Rowah, accepted.

**Iowa, Grant**—Plans in progress by architect, L. D. Willis, Chas. M. Nye, associate, 1221-24 City National Bank building, Omaha, Neb.; 2-story and basement, 60x66; cost \$18,000; D. Vetter, president school board.

**Iowa, Ottumwa**—Proposition for school carried.

**Iowa, Waterloo**—Work has commenced on east ward school; cost about \$35,000; in Howery-McWilliams' addition.

**Iowa, Waverly**—J. F. Leitha, architect, Waverly, Iowa, is preparing plans for a large brick school building at Buck Creek, (not I. O.)

**Man., Winnipeg**—Fire destroyed Indian school at Balcarres, Sask.; loss \$75,000.

**Minn., Fairmont**—The German Lutheran congregation plans to build a new parochial school this summer; brick, 1-story and basement, modern.

**Minn., Pelican Rapids**—Special election April 6 on \$30,000 school bonds; site chosen.

\***Mont., Livingston**—Plans for \$65,000, 2-story and ground floor public school are to be ready April 16 to 20; call for bids soon; announcement of opening of bids Mar. 16, was erroneous; C. H. Turk, Livingston, and Link & Haire, Billings, architects.

**Mont., Livingston**—A site has been purchased for a school.

**Mont., Pompeys Pillar**—School board will submit proposition of transferring \$4,000 to building fund to build a 2-room school house.

**Mont., Three Forks**—Plans being prepared by Dwyer & Waldorf for a new school building, which may be an addition to present main building, board have \$11,000 on hand.

**Neb., Exeter**—A \$24,000 school building will be built here this year.

**N. D., Bathgate**—Plans prepared by architects, J. W. Ross & Sons, for a \$12,000 school here; bids soon; modern, steam heat, brick, 2-story, ventilating.

**N. D., Brisbane**—The town has voted to erect a new school house.

**N. D., Enderlin**—The bond election for new school house carried; address secretary of the board.

**N. D., Fargo**—\$55,000 bonds were voted for a school.

**Wis., Grantsburg**—Patrons of the Branstad school decided to build a brick school house; address county superintendent, Grantsburg.

**Wis., Ladysmith**—A number of new school buildings are contemplated in Rush county; O. E. Rice, county superintendent.

**Wis., Marinette**—An academy for Indian children will be established here by the U. S. government.

**Wis., Marinette**—St. Anthony's congregation will erect a 3-story brick school; Rev. Fr. Selter, pastor.

**Wis., Owen**—Plans in progress for a public school building, 2-story and basement,

24x30, architects, Alban & Lockhart, 407 Chamber of Commerce building, St. Paul, Minn., details later.

**Wis., Wausau**—School house district 2, towns of Wausau & Weston, burned; loss about \$2,000.

\***Wis., Arcadia**—High school, 120x76, \$45,000, brick, tile, steel, will be built; assembly hall for 225; secretary school board, Arcadia.

### BIDS WANTED.

\***Iowa, Burlington**—Bids for two grade schools will be received till 2 p. m., April 21. D. S. Cooper, secretary, board.

**Iowa, Cedar Rapids**—Plans in progress for a 3-story vocational school, 110x105, cost \$100,000; architect, J. W. Brown, 809 Security Bank building, J. M. Ingold, secretary; architect ready for figures April 12.

**Iowa, Davenport**—Bids will be received soon for cathedral school; cost, \$60,000; modern, fireproof, gymnasium in basement, concrete and brick, with brick exterior and terra cotta facing, 105x35. Plans by Arthur Ebeling, Davenport, Iowa.

**Iowa, Coon Rapids**—Bids received by John W. Smith, president, independent school district, until 1:30 p. m., April 21, for a public school building, and also for separate contracts for heating, plumbing and ventilating; check for 5 per cent; officially advertised in the Improvement Bulletin this week.

**Iowa, Lineville**—Bids received by E. H. Carver, secretary, R. F. D. No. 2, Lineville, until 1 p. m., April 11, for a school house in sub-district No. 5, Woodland township, Decatur county.

**Iowa, Maurice**—Bids received until 1 p. m., April 4, for buildings, West Branch township, Sioux county, at following places, districts No. 3, No. 8 and No. 7; bids received by Wm. Huizman, secretary; separately on three buildings.

**Iowa, Orange City**—Bids received by Joe Rexwinkel, secretary of sub-district No. 2, Nassau township, Sioux county, until 1 p. m., April 18, for erection of a school house.

**Iowa, Riceville**—Bids received for the school building were: James Stormant & Son, La Crosse, Wis., \$11,000, including gravity ventilation, but without attic bridging; J. F. Parkinson & Co., Iowa City, including gravity ventilators, but no attic bridging, \$10,960; including attic \$11,085; G. L. Gill, Cresco, including gravity ventilator and attic, \$15,249; O. H. and J. A. Rundquist, St. Paul, total including gravity ventilating and bridging for attic, \$15,750; F. W. Chatman, Waterloo, including attic but no gravity ventilator, \$10,940; contract awarded to J. F. Parkinson & Co., Iowa City.

**Minn., Pierz**—Bids received by Rev. J. G. Stiegler, for a parochial school at Pierz; check for \$100; officially advertised in this issue of the Improvement Bulletin.

**Minn., Wolverton**—Bids received until 10 a. m., April 2, for building addition to consolidated school, including heating, plumbing, ventilating, plans by A. J. Fridlund, architect, Moorhead, Minn.; plans, Wolverton State Bank and architect; check for 5 per cent; separate bids for plumbing, heating and ventilating system, septic tanks and cess pools; P. P. Melbostad, secretary.

**Mont., Barley**—Bids received until 2 p. m., April 1, for erection of three 1-room school houses, Stillwater county, Mont., district 32, plans with chairman of board and clerk. Check for 2 per cent. Louise E. McCord, chairman, Barley, Mont. O. M. Gudmussen, clerk, Lake Basin, Mont.

**Mont., Choteau**—Bids received until noon, Mar. 27, for material for one or two school houses in district No. 1, Teton county. Plans on file at clerk's office; H. A. Prescott, clerk.

**Mont., Comanche**—Bids received until Mar. 25, noon, for 2-story frame school district No. 6, Yellowstone county; plans by G. McAlister, architect; check \$300; plans at office of architect, Stapleton block, Billings, Mont. F. R. Spicer, clerk, Comanche.

**Mont., Stevensville**—Bids received until April 1, for a 2-story school district 13, Francis F. Powell, clerk, brick veneer.

**N. D., Ashley**—Bids received until April 7, 8 p. m., for frame school house with heating and ventilating system; check, 5 per cent; C. A. Johnstone, clerk, Ashley school district No. 9.

**N. D., Cooperstown**—Bids received by Oscar D. Purinton, clerk of board of education, until 1:30 p. m., April 3, for a school building; officially advertised in this issue of the Improvement Bulletin.

**S. D., Yankton**—Bids received by J. N. Blodgett, clerk of the school district, at Gay-



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ville, S. D., until 2 p. m., April 23, for a 2-story, brick school building. F. C. W. Kuehn, architect, Huron, S. D. Check for 2 per cent.

**Wis., Cazenovia**—Bids received until 6 p. m., April 4, for a school, 5-rooms, brick; J. M. Canaan, clerk.

**Wis., Madison**—Bids received for excavation and foundation of Liberal Arts school; Wisconsin Construction Co., Madison, \$6,225; George Nelson Construction Co., Madison, \$6,648; Nicholas Quinn Construction Co., Madison, \$8,231; A. Monstad, Milwaukee, \$7,625; contract not awarded yet; M. E. McCaffrey, secretary.

#### CONTRACTS AWARDED.

**Iowa, Des Moines**—Contract awarded to A. H. Neumann & Co., for general work on North high school at \$119,794; plumbing contract to M. J. Corcoran, at \$28,038; Island Lighting Co. will furnish lights at \$1,008.

**Iowa, Hampton**—Contract for high school building awarded to J. A. Leefer & Co., Cedar Rapids, at \$46,000; if fireproofing is added the board will pay \$4,200 more; lighting, heating and plumbing will be let next month.

**Neb., Maskell**—Contract with P. F. Hagen for a brick school house.

**Iowa, Shenandoah**—J. J. Cardwell will go to Lohrville, Iowa, about April 15, where he has a \$15,000 contract; plumbing and heating school.

**Iowa, Superior**—Carl Schlaeter Jr., of Rockwell City, Iowa, has contract for school building here; cost \$25,000.

**Iowa, Waterloo**—Contract awarded to H. A. Maine Co., for Thomas Edison school at Westfield, at \$37,884; contract for plumbing, heating, etc., let to Willis & Foster at \$12,224.

**Minn., Faribault**—School for blind, south wing, 4-story and basement, \$30,000; mechanical engineer, C. L. Pillsbury, 805 Metropolitan Life building, Minneapolis; owner, State of Minnesota, Downer Mullen, secretary board of control, St. Paul; general contractors, Kingsley & Payant, Faribault; excavating, steam heating let to P. J. Gallagher, Faribault; plumbing to Worthington Co., 322 3d av. S., Minneapolis; electric work to Minneapolis Electric Equipment Co., 227 S. 5th st., Minneapolis.

**Minn., Faribault**—School for feeble-minded 2-story and basement, \$40,000; mechanical engineer C. L. Pillsbury, 805 Metropolitan Life building, Minneapolis; owner, State of Minnesota, Downer Mullen, secretary, board of control, St. Paul; C. H. Johnston, architect, St. Paul; excavating, brick, stone, general contract let to Kinsley & Payant, Faribault; steam heating to P. J. Gallagher, Faribault; plumbing to Worthington & Co., 322 3d av. S., Minneapolis; electric work to Minneapolis Electric Equipment Co., 227 S. 5th st., Minneapolis.

**Minn., Faribault**—School for blind, north wing; 4-story and basement, 50x100, \$55,000; architect, C. H. Johnston, St. Paul; mechanical engineer, C. L. Pillsbury, 805 Metropolitan Life building, Minneapolis; owner, State of Minnesota, Downer Mullen, secretary, board of control; general contractors, Kingsley & Payant, Faribault; excavating, steam heating let to P. J. Gallagher, Faribault; plumbing to Worthington Co., 322 3d av. S., Minneapolis; electric work to C. W. Turner, Faribault.

**Minn., Fergus Falls**—Contract with John Lauritzen, city, for the industrial high school building at \$43,720; other bidders were. Wold Construction Co., of Brookings, S. D., \$52,524; Gray Construction Co., Watertown, S. D., \$47,443; J. P. Johnson, city, \$45,230; Madison Bros., of Minneapolis, \$43,723; contract for the heating was let to F. S. Spencer at \$7,230, the heat regulating device having been eliminated, and the contract for plumbing went to M. Frankoviz at \$1,958.

**Minn., New Ulm**—Contract with A. C. Ochs Brick & Tile Co., for brick for the new \$100,000 high school building.

**Minn., Sleepy Eye**—Contract with Otto Neitze for the St. Mary's school at \$42,000.

**Minn., West Concord**—Contract awarded to F. F. Wright for general work on the 4-room addition to school; heating, plumbing and ventilating contract let to Distad Bros.; cost, \$14,000.

**Neb., Tobias**—Contract awarded to A. G. Ludwig, Arlington, Neb., for high school building, at \$20,000; R. W. Grant, architect, Beatrice, Neb.

**N. D., Devils Lake**—Contract awarded to L. C. Martin, this city, for addition to public

school at St. John; cost \$4,000; architect, A. Shannon.

**Wis., Racine**—Contract awarded William Leiger of this city for remodeling heating plant in large school at Burlington.

## Churches

*Notes arranged alphabetically by states.*

**Iowa, Cedar Rapids**—Work on Immaculate Conception church will commence soon.

**Iowa, Fort Dodge**—Plans have been completed for First Methodist Episcopal church; estimated cost, \$85,000, including the Dollen memorial chimneys. Exterior will be light grey brick, with terra cotta and stone trimmings; modern. Bids soon.

**Iowa, Ida Grove**—Free Mission Friends are preparing to build a church, \$6,000; Rev. Irwin Johnson, pastor.

**Iowa, Story City**—United Evangelical church may erect building this year.

**Minn., Hibbing**—Austin Terryberry, architect, Duluth, Minn., is drawing plans for addition to Presbyterian church; bids taken soon.

**Mont., Cascade**—Plans have been drawn for Catholic church here.

**Neb., Norfolk**—Rev. H. H. Millard announced that approximately \$4,500 would be spent in improvements of church.

**Neb., Stromsberg**—Old church is being torn down to make room for new building; 40x77; cost, about \$15,000.

**Neb., Tekamah**—Plans have been prepared for the proposed Methodist church; brick, terra cotta trimmings. Rev. Mr. McGregor for particulars.

**N. D., Edgeley**—Plans are being drawn for an \$18,000 church for the Wesleyan Methodists; 50x92, brick and stone.

#### BIDS WANTED.

**Minn., Detroit**—Bids received until April 1, for painting exterior of Bakke Church, to be all white with slate color shingles. Rev. C. L. N. Wigdahl, pastor, Detroit, or C. J. Egerdal for information.

**Minn., Watertown**—Bids received by K. Schilling, chairman of building committee of the German Evangelical Lutheran church, until April 15, for a church to be built of hollow tile brick and finished with stucco; 38x64. Rev. Geo. A. Sebald, president.

**Neb., Gordon**—Bids received by R. B. Hull, secretary of building committee of the Methodist Episcopal church until 6 p. m., April 4, for a brick church building. Check for \$200.

**S. D., Aberdeen**—New bids will be called for in a couple of months on the Christian Science church, all bids recently made having been rejected. Geo. F. Fossum, architect.

**S. D., Rapid City**—Bids received at once by Wm. Dodge for the new Congregational church building; also for a heating plant for the same.

**Wis., Manitowoc**—Bids received by Arthur Reichert, city clerk, until 7.30 p. m., April 6, for a chapel in Evergreen cemetery. Check for 5 per cent.

#### CONTRACTS AWARDED.

**Minn., Elbow Lake**—Harrison Bros. have contract for basement under the United Lutheran church.

**Wis., Madison**—Contract with Marks Bros. Co., Milwaukee, for the downtown Lutheran church at \$23,000.

**Wyo., Arapahoe**—Contract with C. L. Spring for the building of a Presbyterian church.

## Elevators

*Notes arranged alphabetically by states.*

**Iowa, Swisher**—Farmers will build an elevator here.

**Iowa, Wellsburg**—Grain elevator which was recently burned here will be replaced.

**Mont., Geyser**—Fire destroyed elevator of the Montana Central Elevator Co.

**Neb., Cortland**—\$10,000 farmers' elevator will be built here.

**Neb., Cotesfield**—Farmers Elevator Co. is building addition to elevator.

**Neb., Lawrence**—R. M. Van Ness, Fairbury, has begun work on Farmers' elevator.

**Neb., Nickerson**—Farmers' Elevator Co., at Nickerson are making extensive improvements.

**Neb., Ong**—Farmers' Union plans elevator here.

**Neb., Vesta**—Work commenced on elevator here.

**N. D., Kloten**—Farmers' elevator and Winter Ames' elevator were burned; they will be rebuilt.

**N. D., Shafter**—Preparations under way for elevator at Watford.

**N. D., Willow City**—Fire destroyed Car-gill Elevator here.

**Wis., Peshtigo**—Christ Hansen of Chicago will build a potato warehouse here.

**Wis., Wausaukee**—The Thomson Produce Co.'s potato warehouse was burned.

#### CONTRACTS AWARDED.

**N. D., Cogswell**—Contract for Farmers' Elevator let to C. H. Benson of Minneapolis, at \$6,200; other bids: W. M. Jennig, Britton, N. D., \$8,600; R. A. Carson, Cogswell, \$7,492; D. F. Hoag & Co., Minneapolis, \$7,200; A. L. Laurant, Minneapolis, \$6,790; Younglove Construction Co., Sioux City, \$6,884; L. O. Hickock & Sons, Minneapolis, \$6,765; L. Bengel, Minneapolis, \$6,745; Honstain Bros., Minneapolis, \$6,700; building 28x31, covered with steel sheeting, modern.

## Mills and Factories

*Notes arranged alphabetically by states.*

**Iowa, Fort Dodge**—Fire destroyed Fort Dodge Manufacturing Co.'s plant; loss about \$50,000; partly insured.

**Iowa, Ida Grove**—Ed. W. Wray of Chicago, will organize a company here and build a creamery.

**Iowa, Letts**—Independent Button Factory owned by J. H. Collins and others was burned; may not be rebuilt.

**Iowa, Mason City**—Fire destroyed packing plant of Martin Manufacturing Co., new building will be erected.

**Iowa, Sioux City**—Palmer Fruit & Candy Co. will erect an addition to their plant; cost \$20,000.

**Minn., Mankato**—Hubbard Milling Co. will erect 12 steel tanks.

**Minn., New Ulm**—H. H. Vogelpohl will enlarge his pipe organ factory and add new machinery this summer.

**Minn., New Ulm**—Eagle Roller Mill Co., is installing 500 k. w. low pressure steam turbine to operate from exhaust steam of company for add. to mill; also condensers, switch, motor, Allis Chalmers Co., Minneapolis furnished the new equipment.

**Minn., Wendell**—Wendell Co-operative Creamery association will build brick creamery; cost \$4,000.

**Minn., Winona**—Broom factory of Otto H. Griesse, 565 Chestnut st., damaged by fire about \$3,500; Henry A. Verkins, owner.

**Mont., Billings**—Montana Land & Products Co., this city will build a canning factory; D. J. Fitzgerald interested.

**Mont., Eureka**—Commercial club considering plans for flour mill.

**Mont., Great Falls**—G. E. Oster, Oklahoma will erect a flour and feed mill, daily capacity 25 barrels; he will build a similar mill at Havre.

**Mont., Livingston**—Over \$5,000 subscribed for creamery here, \$8,000.

**Neb., Blair**—Brick is on ground and work will commence at once on Blair canning factory, fireproof.

**Neb., Fremont**—E. N. Morse has contract for ice making plant; work to start soon.

**Neb., Superior**—G. R. Dodds will build a 2-story addition to his ice plant for an ice cream department.

**N. D., Moorhead**—Remington Canning Factory will establish a factory here.

**S. D., Spearfish**—Spearfish Creamery association will build a creamery.

**S. D., Watertown**—Farmers' Oil Tractor Co. will build factory; John W. Martin, chairman of board.



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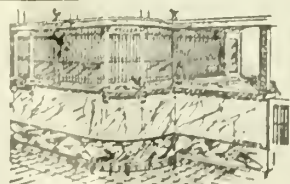
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**Wis., Belleville**—Business mens organization trying to secure milk condensing plant here; C. B. Minch, president; E. A. Arnold, secretary.

**Wis., Eau Claire**—Fire damaged Dells, Paper & Pulp Co. mill about \$2,000.

**Wis., Fall River**—Site where Lashier mill formerly stood, which was burned, was sold to Julius Frederick, who will rebuild mill.

**Wis., Hayward**—Mr. Arden of Wisconsin Pickling Co., made a proposition to erect a salting station here to cost \$3,000, if the farmers will furnish cucumbers.

**Wis., Knapp**—Knapp Farmers' Creamery association will erect creamery here; cost \$10,000.

**Wis., Lancaster**—New Creameries will be erected at Boscobel and Fennimore, modern.

**Wis., Racine**—Factory building will probably be built by the Racine Manufacturing Co., 281x100, 4-story, brick and steel modern; cost \$50,000; C. A. Hamilton, interested.

**Wis., Two Rivers**—Large addition is to be built to plant of Two Rivers plating works.

**Wis., Waupaca**—Feed mill of John Bemis destroyed by fire.

#### BIDS WANTED.

**Minn., Loretto**—Bids received by Henry Schumacher, president, Progressive Creamery association, until 1 p. m., April 13, for a creamery building at Loretto; check for \$300; officially advertised in this issue of the Improvement Bulletin.

**\*Minn., Medford**—Bids received until 2 p. m., April 15, for erection of a creamery building, by the Medford Creamery Association. Richard H. Swanson, architect, Dassel, Minn. Check for 2½ per cent. Officially advertised in this issue of the Improvement Bulletin.

**Mont., Culbertson**—F. E. Wedge, secretary, will receive bids till 2 p. m., April 18, for building a creamery; check for \$25.

#### CONTRACTS AWARDED.

**Wis., Oshkosh**—Contract for 3 buildings, Diamond match plant let to C. R. Meyer & Sons, this city.

## Electrical

*Notes arranged alphabetically by states.*

**Iowa, Burlington**—R. O. Marsh of proposed interurban between here and Quincy, Ill., by the Tri-State Traction Co. of that city, said work will begin soon; contract let.

**Iowa, Charles City**—Farmers mutual telephone is considering the purchase and installation of a new switch board.

**Iowa, Council Bluffs**—Central Iowa Railroad Co. incorporated with a capital of \$5,000, with headquarters here. A line will be built from Omaha to Des Moines.

**Iowa, Davenport**—Tri-City Railway Co., B. N. Denam, general manager, this city, will spend \$20,000 to rebuild the old Rockingham car line from Davenport Locomotive Works to Elsie av. Construction will begin about April 15 on Bettendorf line; cost, \$45,000.

**Iowa, Knoxville**—A franchise granted to Knoxville Electric Co., W. E. Rinehart, city clerk.

**Iowa, Maxwell**—The Story County Independent Telephone Co. will erect a brick telephone exchange.

**Iowa, Montrose**—Iowa Telephone building was burned.

**Iowa, Northwood**—Northwood Telephone Co. will erect brick building, 24x30, 1-story.

**Iowa, Pomeroy**—Northern Iowa Power Co. has asked a franchise to erect poles and string wires in Calhoun county.

**Minn., Aurdal via Fergus Falls**—Aurdal Rural Telephone Co. organized. John Born, president; capital, \$4,000.

**Minn., Bagley**—Bagley electric light plant was burned. It has not been decided whether it will be rebuilt or a franchise granted to some private concern. It was valued at \$0,000.

**Minn., Belle Plaine**—Citizens Home Telephone Co. will rebuild their local exchange by cabling entire town and will extend farm lines out across river.

**Minn., Caledonia**—Jas. C. Driscoll, Henry Hogue and Dr. Whitbeck and others interested in incorporating all telephone lines.

**Minn., Comfrey**—Council voted \$8,000 worth of bonds for electric lights.

**Minn., Fergus Falls**—Dane Prairie Buse Telephone Co., incorporated with a capital of \$2,000. E. A. Rasmussen, president.

**Minn., Granite Falls**—Stony Run farmers, L. C. Rosetter, chairman, S. O. Tjosvold, secretary, have organized an electric light company; a line will be built from this city.

**Minn., Lismore**—Contract for municipal electric plant let to Jaeger Bros., Dyersville, Iowa; Earl D. Jackson, St. Paul, engineer.

**Minn., Moorhead**—Water and light committee will buy a 500-kilowatt turbine for electric light plant; estimated cost, \$16,000.

**Minn., New Ulm**—Eagle Roller Mill Co. will install a 500 k. w., low pressure steam turbine to operate exhaust steam of engine for addition to mill; also condensers, switch, motor, etc. Contract to Allis-Chalmers Co., Minneapolis.

**Iowa, Oakland**—The power house will be remodeled.

**Minn., Red Wing**—Council passed resolution to appropriate \$8,440 for installation of a 4 ampere arc curb lighting system.

**Minn., Sandstone**—The telephone company will extend its line to Askov.

**Minn., Swanville**—A stock company headed by Mr. Mielke has been formed for the purpose of securing electricity from Little Falls.

**Minn., Traverse**—Farmers of Traverse and Lake Prairie township will consider pole line from St. Peter for light and power. Mr. Wilson, superintendent of St. Peter plant.

**Minn., Virginia**—Work will begin this month on a modern office and telephone exchange for the Mesaba Telephone Co. and the entire local system will be rebuilt; cost \$100,000; Fred E. Lister, Duluth, superintendent.

**Minn., Wabasha**—G. M. Dwelle of Lake City owner of the local telephone exchange will make some improvements.

**Minn., Waconia**—Chas. Hansen is erecting a new store building and will install an electric lighting power system and will furnish light and power for several business buildings on Main st. Plant will be operated with a high power gasoline engine to furnish power for dynamo.

**Mont., Red Lodge**—Carbon & Stillwater Electric Railway Co. was incorporated here; capital, \$750,000, for the purpose of building an interurban between here and Columbus, forty miles. Wm. Larkin of this place and others interested.

**Neb., Aurora**—Ravenna Telephone Co. will rebuild all their rural lines this summer. An expert will be hired to make survey.

**Neb., Decatur**—Bids received on construction of electric light plant as follows. Hastings Electric Shop, Yankton, S. D., \$4,975; S. H. Edmunds, Yankton, \$4,978; Frank H. Wheeler Lincoln, \$4,575; Interstate Electric & Manufacturing Co., Sioux City, Iowa, \$4,500; Midwest Electric Co., Omaha, \$4,998; Alamo Engine & Supply Co., \$4,715. Contract awarded to F. H. Wheeler, Fairbanks-Morse & Co., engineers.

**Neb., Harrison**—Franchise granted to Chadron Telephone Co. to establish a phone system here. Line will be built between here and Van Tassel, Neb., and Lusk, Wyo.

**Neb., South Sioux City**—J. H. Ryan made plans and specifications for electric light plant. Estimated cost, \$4,500.

**Neb., Sterling**—A home telephone company has been formed. J. F. Stutheit, president, Willis Rogge, secretary.

**S. D., Pierre**—Articles filed for Rockerville Telephone Co., Dan R. Morris and Ralph Peabody, of Rockerville.

**S. D., Wessington Springs**—Jerauld County Farmers Telephone Co., incorporated by J. D. Powell and others, capital \$30,000.

**S. D., Woonsocket**—Plans are being made for establishing a central station here and furnishing light to Wessing Springs, Alpena, Lane, Forestburg and Artesian.

**Wis., Augusta**—Augusta Light & Telephone Co. will make improvements and extension; cost \$2,140.

**Wis., Boyceville**—Boyceville Telephone Co. incorporated, capital \$10,000, and will take over the lines of Knapp Telephone Co. in wood City; a similar company is being organized in this vicinity; C. W. Hayes and Wm. S. Shough of this place and Dr. W. H. Park of Glen-ganized at Wheeler to take over the Knapp lines.

## Garages and Barns

*Notes arranged alphabetically by states.*

**Iowa, Iowa City**—O. W. Eddy is erecting a garage.

**Iowa, Little Rock**—Bramley & Meyers will enlarge their garage; cement block, glass front, cement floors and steam heat.

**Iowa, Lytton**—Barn of Joe Muesburger burned; loss \$3,600.

**Minn., Adams**—A. G. Ejobakken will build a brick garage.

**Minn., Albert Lea**—The Albert Lea Milk Co. will build a large barn, 38x100, 1-story, concrete, second floor, concrete slab.

**Minn., Amboy**—Will Brown will build a modern barn, 34x70, cement block basement.

**Minn., Atkinson**—Abraham Nasenius will build a large modern barn.

**Minn., Breckenridge**—J. B. Lightbody of Deerhorn, (not P. O.) is building a large barn.

**Minn., Breckenridge**—The Wilkin Auto Co. is building a steel garage and store house.

**Minn., La Porte**—John G. Johnson will erect a 32x70 barn, modern.

**Minn., Mahanomen**—W. A. Bright and Lew McPeck will build a garage.

**Minn., Northfield**—Horace Orden will remodel and build addition to his barn.

**Minn., Pratt**—Ole Jensen is planning to erect a large barn.

**Minn., Verndale**—C. A. Walin and Henry Deardorff are planning to build a garage, 50x75.

**Neb., Bertrand**—The Armstrong livery barn burned; loss \$1,050.

**Neb., Rushville**—Carl Tuschenhazen of Gordon is putting in foundation for the Veach garage.

**N. D., Lakota**—The large barn of R. G. Page burned; loss about \$3,500.

**Wis., Balsam Lake**—L. C. Brace will build a large barn.

**Wis., Black River Falls**—Gust Carlson will build a large dairy barn, 34x60.

**Wis., Clayton**—Peter Paulson will erect a modern barn.

**Wis., Green Bay**—Presbyterian association are building a barn at Church.

**Wis., Manitowoc**—Jos. Yanda will erect a large barn this spring.

**Wis., Lawrence**—J. Verboort has let contract for a 40x90 feet barn to M. Albers, at \$1,400; stalls, stanchions, litter carriers, etc., let to Mitchell Manufacturing Co., of Milwaukee, for \$190.

**Wis., Marshfield**—Henry Fechhelm Sr., is building a large modern basement barn; cost \$1,000; 36x80.

**Wis., Marshfield**—William Koehler of Athens will build a 1-story fireproof garage, 40x80x100.

**Wis., Menomonie**—A new barn will be built by Wm. Eighmy at Forest Center, (not a postoffice).

**Wis., Mount Hope**—Ameal Koschkee and Mr. Parks are planning to build a modern garage.

**Wis., Neillsville**—Peter Paulson will build a concrete and frame garage, 42x84, modern.

**Wis., Sheboygan**—The Deischer & Arndt Co., of Plymouth, incorporated, will build a modern garage; Adam Deischer, C. C. Arndt and others incorporators.

**Wis., Sheridan**—Wm. Blake will build a modern barn.

**Wis., Stockridge**—John Bloom will build a modern barn.

#### CONTRACTS AWARDED.

**Iowa, Harlan**—Julius Larsen has let contract to H. P. Hansen and Niels B. Bennensen for a tile garage, 25x80, with basement.

**Mont., Simms**—Contract let to S. E. Whitcomb, carpenter, for large livery, feed and sale stable; 30x60, modern.

**Wis., Modena**—John F. Heck has contract for the following barn; August Heck, 40x108, barn; Henry Lanterbach, 20-foot addition to barn; Fred Pfund, granary, 20x30, machine shed, 16x40.



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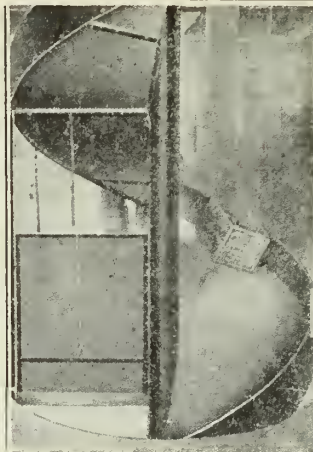
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## Business Buildings

*Notes arranged alphabetically by states.*

*Items marked with asterisk not in daily sheets.*

**Alta., Calgary**—Wilkie Fowler will erect a warehouse soon; modern, \$60,000.

**Iowa, Davenport**—Ewert & Richter plan to build a 7-story fireproof warehouse; cost about \$35,000; work to begin at once; 124-foot frontage.

**Alta., Edmonton**—James Ramsey & Co. plans to erect a 6-story building; cost, \$800,000.

**Alta., Edmonton**—Edwin Auld will erect a 7-story office building, excavation completed. He will erect a similar building on McDougall av.

**Iowa, Boone**—Excavation begun for Roberts building.

**Iowa, Clarion**—A. A. Taft will erect a business building.

**Iowa, Council Bluffs**—Work has been begun on remodeling Zoller Mercantile Co.'s building; cost \$5,000.

**Iowa, Davenport**—C. A. Ficke will remodel his building; cost \$5,000.

**\*Iowa, Des Moines**—The steel work for the Amend store building at 3d and Walnut sts., Des Moines, Iowa, is being furnished by the Des Moines Structural Steel Works.

**Iowa, Estherville**—J. S. Cox is drawing plans for building for C. E. Cavin.

**Iowa, Ft. Dodge**—Vault doors, steel lining, for vaults, safety deposit boxes, steel filing fixtures, for vault, for Ft. Dodge National Bank, are to be purchased by Chas. Stayman, vice president; address all communications to Chas. Stayman, vice president, Ft. Dodge, National Bank, Ft. Dodge, Iowa; designs and prices wanted at once.

**Iowa, Fort Madison**—The city will build a municipal warehouse.

**Iowa, Imogene**—Cahill Bros. will build a brick building.

**\*Iowa, Lake City**—The steel trusses, beams, etc., being used in the new building for W. S. Fulkerson, Lake City, Iowa, are being furnished by the Des Moines Structural Steel Works, Des Moines, Iowa.

**Iowa, Mason City**—L. O. Green is erecting a building to cost \$15,000; first floor will be used by him for his plumbing and heating establishment, and upper floors will be fitted up for offices.

**Iowa, Oskaloosa**—Marshall Oil Co. plant burned; loss \$15,000.

**Minn., Perham**—Kukowske Bros. will enlarge their warehouse.

**Iowa, Red Oak**—Geo. C. Schadel will remodel his drug store and install new fixtures.

**Iowa, Sheffield**—Ornrod & Cockran will build a store soon; Hunter & Wartnaby will build a modern store.

**Iowa, Shenandoah**—J. A. Fletcher will erect an addition to his store, 14x16.

**Iowa, Sioux City**—Permit issued to Haakinson & Beatty for \$1,000 reinforced concrete warehouse.

**Iowa, Waverly**—J. F. Leitha, architect, of this city is working on plans for a large store building at Forest City; and a double store building at Ready.

**Man., Dunrea**—Fire destroyed stores and International Harvester Co. plant; loss \$150,000.

**Man., Winnipeg**—Scott building burned; loss \$150,000.

**Mich., Ishpeming**—Miner National Bank was burned; loss \$35,000.

**Minn., Browns Valley**—A. W. Mitton may build 1-story office building, 25x40.

**Minn., Fairmont**—H. Rippe & Co., will erect a 2-story brick office building, Architect Patsche, preparing plans.

**Minn., Hutchinson**—H. A. Dobratz will erect a modern large furniture emporium. Plans drawn by E. H. Grubert, builder, 42x100, solid brick, 2-story, full basement, elevator, plate glass front, balcony, chapel, 21x28, fully equipped.

**Minn., Jackson**—A 2-story brick store, will be built by Peter Hansen; cost \$6,000; plans

by Geo. Pass & Son, Mankato, Minn., concrete foundation, common and face brick, composition roof, metal cornice, plate and common glass, hard wall plaster, steam heat, maple floors, oak finish, one bathroom, iron beams and columns, metal ceiling, plumbing, no time set for bids, 30x50.

**Minn., Mora**—J. A. Lindsten will erect a business building.

**Minn., St. Charles**—Vandeusen & Stevens have plans drawn for erection of a store building and garage for Herman Stevens; brick, 1-story and basement, with concrete floors, 50x80. Work to commence soon.

**Minn., Two Harbors**—The First State Bank of this city will erect a new bank building this spring; J. H. Lunz, president. Plans by A. Moorman of St. Paul. Building will have facade of Bedford stone with copper bronze frame and doors, 1-story, exclusive bank building; interior will have reinforced concrete vault, marble fixtures and wainscoting with bronze grille work, terrazzo floors and artistic decorations.

**Minn., Two Harbors**—Jas. Lunz and Wm. Lawrence will erect a building to be occupied by First National Bank.

**Minn., Virginia**—Building occupied by Virginia Store Co. will be remodeled and a bakery installed; cost \$7,000; E. J. O'Rourke and Jacob Stein, Duluth, owners.

**Minn., Waconia**—C. Hansen will erect a store building this spring.

**Mont., Anaconda**—F. F. Wilson, architect, Bozeman, is preparing plans for 1-story reinforced concrete building for Daily Trust & Savings Bank of this city.

**Mont., Fox Lake**—Wm. Rosenberg of Beach, N. D., will soon erect a clothing store here, and Harry Wall and H. O. Watters of Beach, N. D., a restaurant.

**Mont., Hingham**—The building occupied by the Hingham Review will be rebuilt, 2-story, 48x24.

**Neb., Alliance**—Lund & Glarum of this city have secured contract for erection of an \$18,000 building in Rushville for D. M. Gaurley; 100x110.

**Neb., Ainsworth**—R. S. Snell will erect a business block in spring.

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**Neb., Genoa**—Excavations have started for a brick building for A. Bratt.

**Neb., Grand Island**—Excavations have been begun for W. E. Rouond's building; Edw. Mathewson has started work on a new plumbing shop.

**Neb., Grand Island**—Fred Roth will erect a business building this summer.

**N. D., St. Thomas**—Fire destroyed Granett Bros.' general merchandise store, \$15,000; Farmers' Estate Bank, loss \$6,000; D. Campbell's grocery, loss \$6,000; store room of same \$1,500; L. Weeks' harness shop, \$2,000; Larson's jewelry store, \$2,000.

**Ont., Fort William**—J. D. Dyke's block burned, may be rebuilt.

**Sask., Strassburg**—Fire destroyed the J. Quan's cafe, George Lavalley's barber shop and pool hall, and A. Mage & Sons' harness shop; all may be rebuilt soon.

**S. D., Aberdeen**—Fire destroyed Thomas Tolefson butcher shop; loss \$1,200; insured; Alfred Kallen, general merchandise store, \$12,000; building owned by Mrs. Baker of Fresno, Cal., \$7,000; insured; John Gaskin's general merchandise store, loss \$15,000, insured; Columbia Town Hall association, \$4,500; E. T. Fressenden building, furniture and hardware; loss \$7,500; insured.

**S. D., Aberdeen**—Cement foundation of Spaulding Auto Co.'s building begun; excavation for the Hanicker's building started.

**S. D., Belle Fourche**—Plans are being made for rebuilding the Chuning Mercantile Co.'s building recently burned.

**S. D., Brookings**—A. M. Wold, Ehilo Hall and Dr. Green let contract for pressed brick for four buildings.

**S. D., Columbe**—Business section burned; loss \$65,000.

**S. D., Columbia**—Fire destroyed the entire business block here; total loss, \$65,000; insured at \$30,000.

**S. D., Huron**—Plans for a bank for the City National Bank prepared by architect, F. C. W. Kuehn, Huron, S. D., 2-story, brick, fireproof, 25x80, cost \$17,000; steel beams, reinforced concrete fireproofing, lime cut stone, common and hollow brick, hot water heat,

electric lights, composition roof, patent and ornamental plaster, plate glass, tile floor, marble interior, maple floors, oak finish and birch; bids taken by bank, close April 2; bids on heating, plumbing and ventilating taken later.

**S. D., Iroquois**—Plans prepared by F. C. W. Kuehn, architect, Huron, S. D., for a brick bank building, for Farmers & Merchants Bank, fireproof, 25x55; cost \$8,000; steel beams, reinforced concrete fireproofing, lime cut stone, common, pressed and hollow brick, furnace heat, electric lights, composition roof, common patent plaster, maple floors, oak finish; bids close April 21.

**S. D., White Lake**—Hanten Bros. will enlarge their store building.

**S. D., Yankton**—A frame building is to be erected here for M. J. Powers Egg Co., of Chicago.

**Wis., Madison**—Permit issued to the Menges pharmacy for new drug store; cost, \$8,201.

**Wis., Racine**—Plans out for brick 2-story building for Smollen & Schoenlaben; \$12,000.

**Wis., Racine**—Theo. Menden will build a modern 2-story store and flat building; cost \$15,000.

**Wis., Rhinelander**—W. C. Hawkins, Oneida Steam Laundry plans modern brick block, 52x75; two store fronts.

**Wis., Sheboygan**—Excavating has been started for a warehouse for the Crocker Chair Co., 5-story, 140x60, brick, modern throughout, a sprinkler system will be installed.

**Wyo., Hudson**—Olive Bertagnelli has started excavating for a 25x70, 2-story, concrete block.

#### CONTRACTS AWARDED.

**Iowa, Hubbard**—The contract for the steel work required on the C. A. Clancy building at Hubbard, was awarded to the Des Moines Structural Steel Works, Des Moines, Iowa; Stephensen & Peterson, Webster City, Iowa, general contractors.

**Iowa, Perry**—Bids were received by Phil-

lips-O'Malley-Tierman this week for erection of their large modern, 3-story and basement store building, 50x130. Bids opened Saturday, Mar. 21. A. W. Ogden, contractor for excavation.

**Iowa, Sioux City**—P. E. Short, contractor, received contract for a warehouse for the Palmer Fruit Co.

**Minn., Ironton**—Contract for First National Bank building let to A. Nelson, Perham, Minn.; cost \$16,000; will be 2-story, brick with tile floors, full basement, modern throughout.

**Minn., St. Cloud**—General contract let to Ed. Hirt for 2-story, 50x110, brick store; heating and plumbing plans ready for figures March 28; Roland C. Buckley, architect.

**Mont., Great Falls**—Contract for Wm. Roberts' building awarded to Chris Fontana; work to begin at once.

**Mont., Great Falls**—Contract awarded to Allen J. Olson, for Stone-Ordean-Wells warehouse and office building at \$25,000; finished June 1; 2-story, 66x130, basement.

**Neb., Scottsbluff**—Mrs. Clara Roppal of Henry, let contract to C. E. Dooley of this place for a brick store building.

**N. D., Williston**—Link & Borsheim secured contract for building Vohs block; brick, fireproof, 1-story and basement; cost, \$6,000.

**Wis., Fairchild**—Martin Tollack awarded contract to J. J. McGillivray for construction of new business block; solid brick; 2-story.

**Wis., Forestville**—Contract awarded to Michael Cohn, Algoma, Wis., at \$3,246, for bank building; other bids: Fred Wulf, Algoma, Wis., \$3,655; Eugene Denamur, Brussels, \$3,565; Meyer & Prihl, Forestville, Wis., \$3,601; Pinchard Bros., Green Bay, Wis., \$3,600; John Blachinsky, Green Bay, \$4,100; J. H. Gineesse Co., Green Bay, \$4,376; Gus Worurch, Green Bay, \$4,453; G. H. Fleck, DePere, Wis., \$4,482; P. F. Benton, architect, Green Bay, Wis.

**Wis., Hazel Green**—Contract let to Ellsworth Brown of Benton, for store and flat building for J. P. Byrne, will be 22x36.

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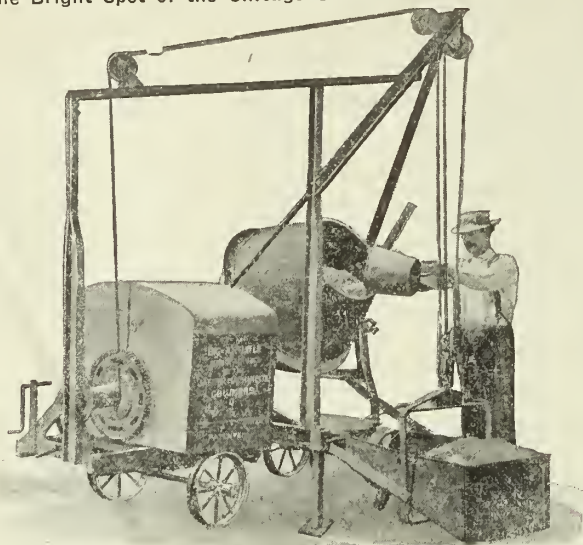
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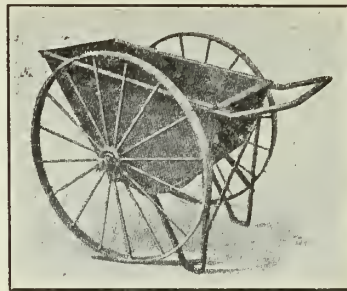
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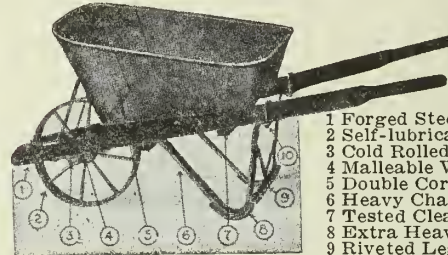
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Capacity 6 cubic feet, thin sloppy concrete; 7 feet dry material. No weak spots. A perfect cart. Weight, 215 lbs., 36-inch wheels.

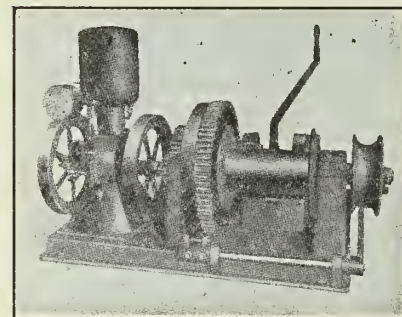
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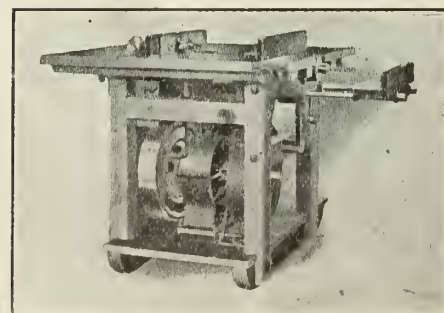
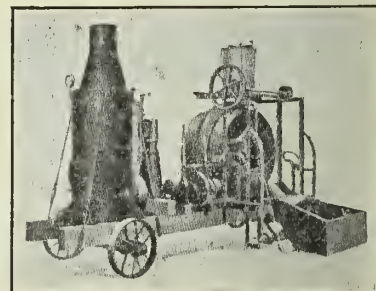
with 6 H. P. Engine, or 8-10 H. P. Engine. Contractors usually use these outfits with a double platform elevator. Write for prices.



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## Residences

*Notes arranged alphabetically by states.*

**Iowa, Clarion**—H. M. Stanberry has let contract to Ole Mickelson for an 8-room bungalow; modern.

**Iowa, Decorah**—D. Wilson will build a modern residence.

**Iowa, Denison**—Plans prepared by Edgar L. Barber, architect, Denison, Iowa, for a residence for A. A. Christianson; 2-story, 28x50, frame, brick foundation, shingle roof, wood cornice, plate and d. s. glass, hard wall plaster, hot water heat, yellow pine and birch floors, red gum finish, one bathroom, one mantel.

**Iowa, Estherville**—Thompson & Sweet have contract to build residence for Oscar Sillage.

**Iowa, Estherville**—A. J. Case is having plans prepared for a modern residence.

**Mich., Iron River**—Derrick Hubert, Architect, Menominee, Mich., prepared plans for five bungalows for M. S. McDonough; frame, cost from \$3,500 to \$5,500; hot water heat, electric lights, wood roof, patent plaster, metal lath, corner bead, oak and maple floors; bids taken by architect or owner until April 10.

**Minn., Blue Earth**—A modern residence will be built by James Wilson.

**Minn., Chisago**—Contract awarded to C. A. Palmer, for erection of a parsonage at \$5,495; H. Erickson, architect.

**Minn., Farmington**—Fire destroyed home of Frank Ely; loss, \$3,000.

**Minn., Heron Lake**—Dr. Moe is erecting a modern residence. John Tintinger of Spirit Lake, contractor.

**Minn., Mankato**—George Pass & Son, Mankato, Minn., architects, prepared plans for a 2-story residence; stucco, for Mary Chehive; 28x54; cost, \$7,000; furnace heat, city water, gas, electricity, wood roof, common plaster, board, maple floors, paint.

**Mich., Menominee**—A 2-story, frame, 50x38 residence will be built by Mrs. McCormick, care of architect; cost, \$10,000; plans by Derrick Hubert, architect, Menominee, Mich.; bids April 25, taken by owner or architect; tile, fireproofing, pressed fire brick, hot water heat, electric light, wood roof, common plaster, tile floors and hearths, oak and tile floors, birch finish; bids close May 1st.

**Mont., Great Falls**—J. E. Beaulaurier is building a dwelling; cost, \$3,000.

**Mont., Helena**—Plans prepared by Linke & Haire, architects, Helena, for a 4-story apartment house, 85x90, fireproof; cost, \$90,000; concrete foundation, pressed brick, granite stone, composition roof, terra cotta, cornices, hard wall plaster, steam heat, maple floors, birch finish, boilers, twenty-nine bathrooms, dumb waiter, decorating, elevator, electric bells and lights, fire escape, fireproofing, hollow tile, iron beams, marble, wire lath, plumbing, refrigerator, screens, skylights, telephone system, terra cotta, ventilators. Bids received April 5 by company.

**Neb., Aurora**—Contract awarded to Billy O'Brien for erection of a modern residence for Joe Oswald; cost, about \$3,500.

**Neb., Grand Island**—John Schultz is erecting a house; 28x30. John Clausen, Grand Island, contractor. Auburn—W. J. Rose Jr., is erecting a modern 5-room cottage. Bertrand—C. G. Pelander of Holdredge is building a modern residence for P. C. Schroeder. Fairbury—H. L. Greeson will build a modern, 7-room bungalow. Hastings—T. E. Masters is erecting a modern house, 2-story. Kearney—Walter Knutzen has contract for modern residence for Ralph Buddington. Kearney—J. E. Fowler has contract for 7-room house for George Harris. Kearney—H. B. Watson has let contract for erection of residence. Osceola—E. W. Strom of Stromberg has contract for dwelling for J. P. Herald.

**Neb., Kearney**—A. G. Graham is preparing to build a \$10,000 residence; 2-story and basement.

**Neb., Oakdale**—Chas. V. Anderson will build a modern residence. Oakdale—A modern farm residence is being built by C. U. Blesh. Pierce—A modern residence is being built by August Roepke. Pierce—

Anton Honisky is building a modern residence; 1-story, bungalow, 26x40. Constance—Peter Reifenrath will build a modern residence here soon. Silver Creek—W. H. Hartford will build a modern dwelling. Tekamah—J. M. Fischer will build a brick bungalow.

**Neb., Randolph**—H. A. Mabeus is preparing to build a modern residence; cost, \$4,500.

**Neb., Walthill**—Wm. Sears will erect a new residence. Walworth—Charles Pitkin is building a modern residence for Chas. Miller. University Place—F. S. Robey, a Lincoln contractor, is building a residence for G. A. Robey. University Place—H. C. Amos is building a house. Tecumseh—Fire destroyed the residence of W. J. Lynch. Sidney—Mr. Dobrinski is building a modern house. Silver Creek—W. H. Hartford will build a modern residence. Sterling—C. C. Rathe has let contract to Fred Stinson for erection of a 2-story residence. Sterling—Elinga & Elinga received contract for erection of a dwelling for John Panco. Sidney—A new parsonage will be erected for Father Linke. Scotts Bluff—Irvin Pickett will erect a new house, A. E. Jull, contractor. Royal—Sam Voorhies is erecting a residence. Redington—Rolly Sickles is building a modern residence. Polk—J. W. Knowles plans to build a residence. Plattsmouth—Christian church will build a new parsonage. Nebraska City—Walker Neeley will rebuild his house. Norfolk—George Parker of Omaha plans erection of a modern house. Murray—Rex Young contemplates erection of a 6-room cottage, modern. McGrew—S. V. Hannibal has ordered plans for a new residence. McGrew—Preston Enes has closed contract with L. W. Ringsby for erection of a house and barn. Springview—W. K. Conway is building a house. Kearney—George Harris has let contract for erection of a modern bungalow to J. E. Fowler. A. C. Graham will build a \$10,000 residence, 2-story, modern, also garage. Walter Knutzen will build a modern 2-story bungalow for Ralph Buddington. Fitzgerald & Sons have contract for erection of a 6-room bungalow for H. B. Watson. Mr. Darnell of Shelton will build a modern bungalow. Will Snowden has a bungalow under construction. A 2-story bungalow is being erected by R. E. Turner. Fremont—Hans Lubker is building

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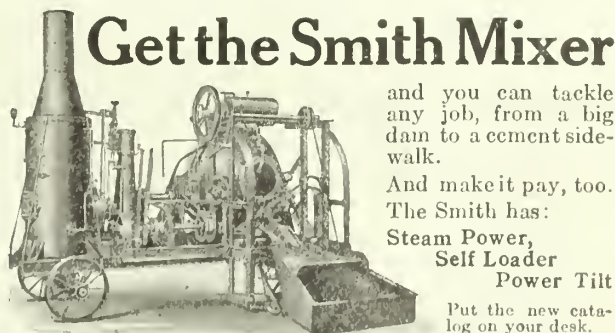
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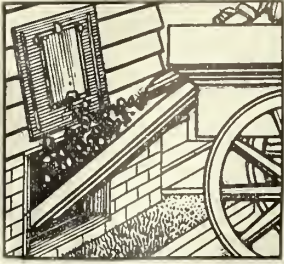
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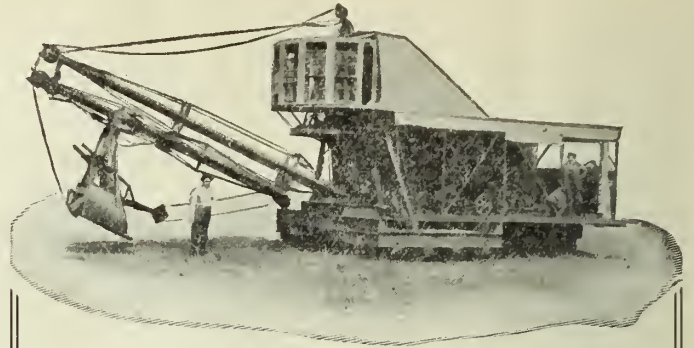
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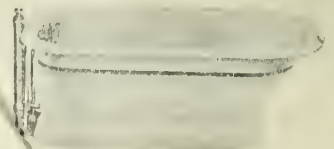
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Sask., Regina—Permits for three residences, cost \$3,500 each, received by A. C. Froome. The Constructors, Ltd., will do construction work.

Wash., Centralia—Heath & Gove, architects, Tacoma, Wash., have prepared plans for an apartment house; cost, \$25,000; dumb waiters, folding beds, gas stoves, steam boilers; 40x120, 3-story.

Wash., Tacoma—Heath & Gove, architects, Tacoma, Wash., prepared plans for an apartment house for the Ansonia Realty Co.; 4-story, brick, 100x120; cost, \$135,000. Contract awarded to Cornell Bros.; twenty-eight apartments, vacuum heating system, oak flooring, mahogany and spruce finish, four laundry driers, fireproof, electric bells and lights, gas fixtures, mantels, metal or wire lath, refrigerator, telephone system.

## Miscellaneous

*Notes arranged alphabetically by states.*

Iowa, Ottumwa—Bidders for two new dams and equipment of municipal lighting plant at Ottumwa were as follows: Dams, Ottumwa Supply & Construction Co., Koss Construction, Des Moines; J. W. Turner Improvement Co., Middleton-Hoglund Co., Kansas City; Missouri Construction Ballast Co., Cedar Rapids; A. J. Martin Co., Augusta, Ga.; Andrew W. Woodman, Chicago. Lighting equipment, Lombard Governor Co., Chicago; Woodward Governor Co., Rockford, Ill.; James Deffel Co., Springfield, Ohio; S. Morgan Smith Co., York, Pa.; Allis Chalmers Co., Chicago; Murray Iron Works, Burlington; A. L. Ide & Sons, Springfield, Ill.; R. B. Whitacre & Co., St. Paul; Erie City Iron

Works, Chicago; Fort Wayne Electric Works, Fort Wayne, Ind.; Western Electric Co., Chicago; Electric Machinery Co., Minneapolis; Westinghouse Electric Manufacturing Co., Chicago. Awards to be announced in a few days.

\*Iowa, Sioux City—Plans for Crystal Lake Park, Nebraska, call for the expenditure of about \$25,000 for improvement work. Win. Fisher, manager.

Iowa, Ames—Authorities are preparing preliminary plans for the proposed \$35,000 greenhouse in connection with Iowa agricultural college; R. A. Pearson, president.

## CONTRACTS AWARDED.

\*Minn., Eveleth—Contract with Gogebic Steam Boiler Works, Duluth, for boilers for new pumping station at St. Mary's lake. Scotch marine boilers of 150-horsepower and 150 pounds pressure, at \$3,577.

\*Minn., Two Harbors—Contract for building steel superstructure for coal dock trestle let to American Bridge Co., together with all known safety devices.

## Railroads

*Notes arranged alphabetically by states.*

B. C., Fernie—Engineers are surveying line from Calgary to this point; \$10,000,000 available to start construction; along Elk river part of way; may be leased to Milwaukee road.

Iowa, Marshalltown—Union station at Tara (not P. O.) burned, loss \$1,500, may be rebuilt by M. & St. L. and Illinois Central.

Minn., Barnesville—New switches will be built in local yards, sidings lengthened between here and Ada; double track from here to Wheatville.

Minn., Bemidji—Work will start soon on Redlake Northern, Lake Itasca to Redlake and Lake of Woods. J. E. Coon, Youngstown, Ohio, interested; ten miles new track will connect two spurs of Red River Lumber Co.; logging road, sixty miles.

Minn., Moorhead—Northern Pacific will establish station at Watts siding a few miles east.

Mont., Geart Falls—Great Falls & Teton road will probably build from Bynum to main line G. N. near Glacier Park.

Mont., Challis—Report 250,000 railroad ties wanted for railroad work in Custer county.

Mont., Great Falls—Winston Bros. Co., Minneapolis, have completed work on Great Falls-Lewistown line, Milwaukee road.

Mont., Iverness—Great Northern will build a new station.

Mont., Silver Bow—B. A. & P. station destroyed by fire; loss, \$1,500.

Neb., Kearney—Union Pacific will ladd three stalls to present roundhouse.

S. D., Pierre—Central Railway Co. of Iowa incorporated; South Dakota capitalists; \$5,000,000; Des Moines to Omaha, Neb.

Wis., Chippewa Falls—Soundings for a new bridge over Chippewa have been taken by Soo engineer.

Wis., DePere—Plans completed for new brick Northwestern station; all modern, cement roadways and platform.

Wis., Green Bay—Northwestern road reported preparing to build car shops here, for box and gondolas.

Wis., Horicon—New station ordered by state on C. N. & St. P. road here; must be completed July 15.

Wis., Manitowoc—Northwestern road's new station here, old one declared unsanitary, will cost \$25,000.

Wis., Pembine—Soo station was burned.

Wis., Shawano—Northwestern station will be improved.

Wyo., Basin—General manager Geo. W. Holdredge states, connecting link Burlington road, Gulf to coast line, Orin Junction to Casper will be completed early in fall.

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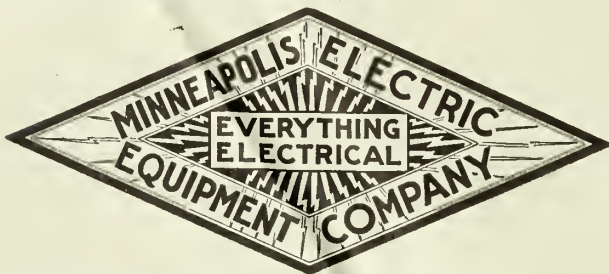
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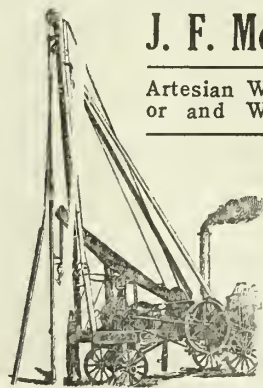


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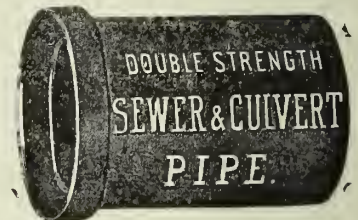


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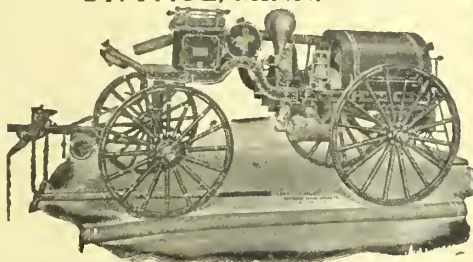
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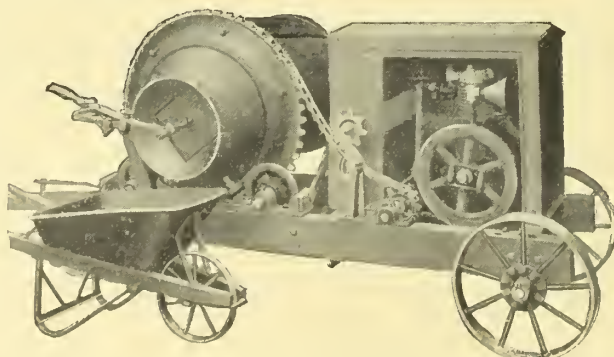
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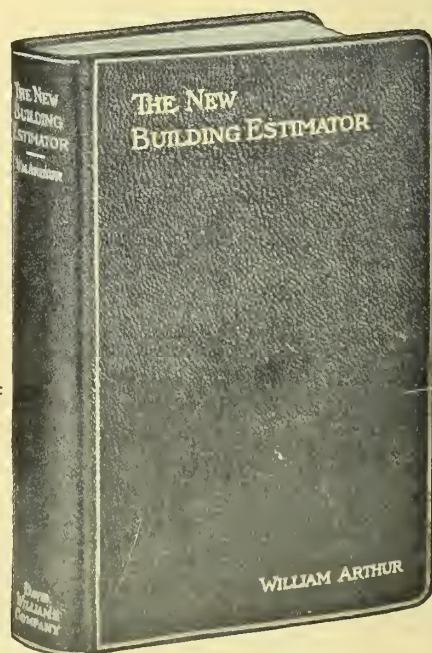
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Volume XLVII.

Minneapolis, Minn., April 4, 1914.

Number 18

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## NOTE

For street address of firms mentioned here, consult their advertisements which can readily be found by referring to the alphabetical list on page three.

### ARCHITECTURAL MODELING.

K. F. Lott & Co..Mpls. and St. Paul, Minn.

### ARCHITECTS' SUPPLIES.

Minneapolis Blue Prtg. Co....Mpls., Minn.  
Rogers & Co.....Minneapolis, Minn.

### ASBESTOS AND MAGNESIA PRODUCTS.

H. W. Johns-Manville Co.....Mpls., Minn., and Milwaukee, Wis.  
Krieger-Jamar Co.....Duluth, Minn.

### ARTESIAN WELLS.

J. F. McCarthy.....Minneapolis, Minn.  
S. Swenson Artesian Well Co.....Minneapolis, Minn.

### BANKS.

Northwestern National Bk....Mpls., Minn.

### BANK AND STORE FIXTURES.

Flour City Ornamental Iron Works.....Minneapolis, Minn.  
A. Moorman & Co.....St. Paul, Minn.  
Northwestern Fixture & Cabinet Co.....Minneapolis, Minn.

### BOILERS.

Andrews Heating Co.....Minneapolis, Minn.  
Associate Mrs. Supply Co.....Mpls., Minn.  
Central Supply Co.....Minneapolis, Minn.  
Crane & Ordway Co.....St. Paul, Minn.  
Hasey Heating Co.....Minneapolis, Minn.  
McDonnell Boiler & Iron Works.....Des Moines, Iowa

### BONDS—SURETY.

Hood & Penney Co.....Minneapolis, Minn.  
Wm. B. Joyce & Co.....Mpls.-St. Paul, Minn.  
Fidelity & Deposit Co..Mpls.-St. Paul, Minn.

### BRASS GOODS.

Central Supply Co.....Minneapolis, Minn.  
National Mfg. & Supply Co....Mpls., Minn.

### BRICK AND TILE.

American Brick & Tile Co..Mason City, Ia.  
Arnegard, Ole.....Hillsboro, N. D.  
Barber Asphalt Paving Co..Des Moines, Ia.  
Belt Line Brick Co.....Minneapolis, Minn.  
Boukind-Carlson Brick Co.Crookston, Minn.  
Chaska Brick & Tile Co.....St. Paul, Minn.  
Crookston Brk. & Tile Co..Crookston, Minn.  
Dickinson Brick Co.....Dickinson, N. D.  
Flint Brick Co.....Des Moines, Ia.  
Hebron Fire & Pressed Brick Co.....Hebron, N. D.  
Hydraulic Press Brk. Co.Minneapolis, Minn.  
Johnson, Jackson & Corning Co.....Minneapolis and St. Paul, Minn.  
Mason City Brick & Tile Co.Mason City, Ia.  
National Fireproofing Co.....Minneapolis, Minn., and Chicago, Ill.  
Northwestern Fireproofing Co..Mpls., Minn.  
A. C. Ochs Brick & Tile Co.....Springfield, Minn.  
Red River Valley Brick Corporation.....Grand Forks, N. D.  
Shakopee Cement Lime Co..St. Paul, Minn.  
Sioux City Brick & Tile Works.....Sioux City, Ia.  
Standard Salt & Cement Co..Duluth, Minn.  
St. Paul Lime & Cement Co..St. Paul, Minn.  
Twin City Brick Co..St. Paul-Mpls., Minn.

### BRIDGES.

American Bridge Co.....Minneapolis, Minn.  
Corrugated Bar Co.....St. Paul, Minn.  
Crown Iron Works Co.....Minneapolis, Minn.  
Minneapolis Steel & Mach. Co..Mpls., Minn.  
N. W. Concrete Steel Co.Minneapolis, Minn.  
St. Paul Foundry Co.....St. Paul, Minn.

### BUILDING MATERIAL.

Barber Asphalt Paving Co..Des Moines, Ia.  
Baxter Sash & Door Co.....Duluth, Minn.  
N. B. Cagley & Co.....Minneapolis, Minn.  
Carr-Cullen Co.....Minneapolis, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co..Mpls. and St. Paul, Minn.  
Landers-Morrison-Christensen Co.....Minneapolis, Minn.  
Osgood & Blodgett Mfg. Co..St. Paul, Minn.  
Shakopee Cement Lime Co..St. Paul, Minn.  
The Northwestern Lime Co..St. Paul, Minn.  
Standard Salt & Cement Co..Duluth, Minn.

### BUILDERS' SPECIALTIES.

McLop, Moore Co.....Duluth, Minn.  
Tabor & Nelson Co.....Duluth, Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
Thompson-Williams Co.....Duluth, Minn.  
Waterloo Register Co.....Waterloo, Ia.

### CAULKING PASTE.

Minnesota Weatherproof Caulking & Glazing Co.....Minneapolis, Minn.

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### CEMENT.

Atlas Portland Cement Co., New York, N. Y., Chicago, Ill., and Minneapolis, Minn.  
Carney's Cement Works....Mankato, Minn.  
Fowler & Pay....Mpls. and Mankato, Minn.  
Landers-Morrison-Christensen Co.....Minneapolis, Minn.  
N. W. Lime Co..Mpls. and St. Paul, Minn.  
Shakopee Cement Lime Co..St. Paul, Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
Speakes Lime & Cement Co..Superior, Wis.  
St. Paul Lime & Cement Co..St. Paul, Minn.

### CELLS, STEEL.

Avery Steel & Iron Co..Minneapolis, Minn.  
Crown Iron Works Co.....Minneapolis, Minn.  
Diebold Safe & Lock Co.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co..Mpls., Minn.

### CEILINGS, STEEL.

Canton Steel Ceiling Co..Minneapolis, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### CHAIRS, OPERA.

Northern Theatre Supply Co..Mpls., Minn.

### COAL CHUTES.

Crown Iron Works Co.....Minneapolis, Minn.  
Enterprise Iron Works....Albert Lea, Minn.  
Gardner Hardware Co.....Minneapolis, Minn.  
Majestic Furnace & Fdy. Co..Mpls., Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
Waterloo Register Co.....Waterloo, Ia.

### COLD STORAGE PLANTS.

Chas. A. Berger.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

### COLUMN CLAMPS.

O. F. Symons & Co.....Minneapolis, Minn.

### CONCRETE CONSTRUCTION.

Corrugated Bar Co.....St. Paul, Minn.  
C. A. P. Turner.....Minneapolis, Minn.

### CONCRETE MACHINERY.

Atlas Engineering Co.....Milwaukee, Wis.  
Nels Erickson.....Minneapolis, Minn.  
Eureka Machine Co.....Lansing, Mich.  
G. E. Ingersoll & Co.....St. Paul, Minn.  
Koehring Machine Co.....Minneapolis, Minn., and Milwaukee, Wis.  
Standard Salt & Cement Co..Duluth, Minn.  
Jaeger Machine Co.....Columbus, Ohio  
Raymer Hardware Co.....St. Paul, Minn.  
Lansing Co.....Lansing, Mich.  
Northwestern Iron & Steel Works.....Eau Claire, Wis.

### CONCRETE REINFORCING BARS.

Inland Steel Co.....St. Paul, Minn.  
Corrugated Bar Co.....St. Paul, Minn.  
N. W. Concrete Steel Co.Minneapolis, Minn.  
Minneapolis Steel & Mach. Co..Mpls., Minn.

### CORNICES.

Griffin & Boehme.....St. Paul, Minn.  
F. V. Haverland.....Minneapolis, Minn.  
Minnesota Roofing & Cornice Works.....St. Paul, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.  
St. Paul Roofing, Cornice & Ornament Co.....St. Paul, Minn.

### CORRUGATED IRON, ETC.

Corrugated Bar Co.....St. Paul, Minn.

### CONCRETE REINFORCING.

Inland Steel Co.....St. Paul, Minn.  
N. W. Concrete Steel Co.Minneapolis, Minn.

### CONTRACTORS.

N. B. Cagley & Co.....Minneapolis, Minn.

### CONTRACTORS' SUPPLIES AND MACHINERY.

Decker Hardware Co.....St. Paul, Minn.  
O. F. Symons & Co.....Minneapolis, Minn.

### CULVERTS.

Victor H. Leeb.....Fargo, N. D.  
Biesanz Stone Co.....Winona, Minn.  
Klauer Mfg. Co.....Dubuque, Ia.  
Minneapolis Steel & Mach. Co..Mpls., Minn.

### CRUSHED STONE.

Fowler & Pay....Mankato, Minn.  
Kettle River Co.....Minneapolis, Minn.  
Klauer Mfg. Co.....Dubuque, Ia.  
Mantorville Stone Co.....Mantorville, Minn.  
New Ulm Stone Co.....New Ulm, Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
Widell Co.....Mankato, Minn.

### CREOSOTING.

Republic Creosoting Co., A. E. Larkin.....Minneapolis, Minn.

### DEADENING MATERIAL.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co.....St. Paul, Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
Union Fibre Co.....Winona, Minn.

### DECORATIONS.

Odin J. Oyen.....La Crosse, Wis.

### DITCHING MACHINES.

Dix Machine Co.....Stillwater, Minn.

### ELECTRICAL ENGINEERING.

Minneapolis Electric Equipment Co.....Minneapolis, Minn.  
Northern Electrical Co..Minneapolis, Minn.

## RATES

For three lines in directory, giving name, address and goods handled, \$25 for 1 year, 52 times.

### SAMPLE AD

Great Northern Brick Company  
Pressed Brick and Drain Tile  
Minneapolis, - - - Minn.

### ELECTRIC MOTORS AND SUPPLIES

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
Minneapolis Electric Equipment Co.....Minneapolis, Minn.  
Sterling Electric Co.....Minneapolis, Minn.

### ELECTRIC SPECIALTIES

Minneapolis Electric Equipment Co.....Minneapolis, Minn.

### ELEVATORS AND ENCLOSURES.

Kimball Bros. Co.....Council Bluffs, Ia.  
Gust Lagerquist.....Minneapolis, Minn.  
Lee & Hoff Mfg. Co.....St. Paul, Minn.

### ELEVATOR CABS.

N. W. Fixture & Cabinet Co..Mpls., Minn.

### ENGINEERS—CONTRACTORS.

Power Engineering Co..Minneapolis, Minn.

### ENGINEERS.

Oscar Claussen Engineering Co.....St. Paul, Minn.  
Charles L. Pillsbury.....Minneapolis, Minn.  
L. P. Wolf.....St. Paul, Minn.  
M. B. Store.....Minneapolis, Minn.  
W. P. Cowles.....Minneapolis, Minn.

### FIRE ESCAPES.

Crown Iron Works Co.....Minneapolis, Minn.  
Des Moines Structural Steel Works.....Des Moines, Ia.  
Davenport Mach. & Fdy. Co..Davenport, Ia.  
Minneapolis Steel & Mach. Co..Mpls., Minn.

### FIREPROOF DOORS.

Thorp Fireproof Door Co..Minneapolis, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### FLUE LINING.

Northwestern Lime Co.....St. Paul, Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
St. Paul Lime & Cement Co..St. Paul, Minn.

### FIRE PROTECTION APPARATUS.

Watrous Engine Works Co..St. Paul, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

### FIREPROOFING DOORS AND SHUTTERS.

Selden Roofing & Manufacturing Co.....Minneapolis, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### FLOORING.

American Torgoment Flooring Co.....Minneapolis and (Midway) St. Paul, Minn.  
Fama Stonewood Co.....St. Paul, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co..Mpls. and St. Paul, Minn.  
Osgood & Blodgett Mfg. Co..St. Paul, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.  
I. Stephenson Co.....Wells, Mich.  
Thomson-Williams Co.....Duluth, Minn.

### FURRING.

Corrugated Bar Co.....St. Paul, Minn.

### GAS AND ELECTRICAL FIXTURES.

Herber Chandelier Co.....Minneapolis, Minn.  
Mpls. Electric Equipment Co..Mpls., Minn.  
Minneapolis Gas Fixture Co..Mpls., Minn.  
Sterling Electric Co.....Minneapolis, Minn.

### GLASS.

American Luxfer Prism Co.....Chicago, Ill.  
Minnesota Art Glass Co.....St. Paul, Minn.  
Pittsburgh Plate Glass Co.....Minneapolis and St. Paul, Minn.

### GRAVITY CARRIER.

Minnesota Manufacturers' Association.....North St. Paul, Minn.

### HARDWARE TRIMMINGS.

Decker Hardware Co.....St. Paul, Minn.  
Gardner Hardware Co.....Minneapolis, Minn.  
Raymer Hardware Co.....St. Paul, Minn.  
Watrous Engine Co.....St. Paul, Minn.  
Warner Hardware Co.....Minneapolis, Minn.

### HEAT REGULATORS.

Andrews Heating Co.....Minneapolis, Minn.

### HEATING AND VENTILATING.

Andrews Heating Co.....Minneapolis, Minn.  
Associate Mrs. Supply Co.....Minneapolis, Minn.  
Hasey Heating Co.....Minneapolis, Minn.  
H. Kelly & Co.....Minneapolis, Minn.  
National Mfg. & Supply Co..Mpls., Minn.  
Charles Wilkins & Co.....Minneapolis, Minn.

### HOSE.

Gardner Hardware Co.....Minneapolis, Minn.  
W. K. Morison & Co.....Minneapolis, Minn.

### HOTELS.

Radisson Hotel.....Minneapolis, Minn.



## NOTE

For street address of firms mentioned here, consult their advertisements, which can readily be found by referring to the alphabetical list on page three.

### INSULATING MATERIAL.

H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co.....St. Paul, Minn.  
Union Fibre Co.....Winona, Minn.

### INSURANCE.

Fidelity & Deposit Co.....  
..Minneapolis and St. Paul, Minn.  
Fred L. Gray Co.....Minneapolis, Minn.  
Hood & Penney Co.....Minneapolis, Minn.  
W. B. Joyce Co., Mpls. and St. Paul, Minn.  
Mirneapolis Insurance Agency.....Mpls., Minn.

### IRON AND STEEL WORK.

Avery Steel & Iron Co...Minneapolis, Minn.  
Clinton Bridge Works.....Clinton, Ia.  
Crown Iron Works.....Minneapolis, Minn.  
Davenport Machine & Foundry Co.....  
Davenport, Ia.  
Des Moines Structural Steel Works.....  
Des Moines, Ia.  
Inland Steel Co.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
N. W. Concrete Steel Co., Minneapolis, Minn.  
Oberg & Stainer.....Minneapolis, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.  
St. Paul Foundry Co.....St. Paul, Minn.  
E. J. Voggenthaler Co.....Dubuque, Ia.  
Youngstown Iron & Steel Co.....  
..Minneapolis, Minn.

### JOIST HANGERS.

Avery Steel & Iron Co...Minneapolis, Minn.  
Crown Iron Works Co.....Minneapolis  
Davenport Machine & Foundry Co.....  
Davenport, Ia.  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
Northwestern Concrete Steel Co.....

### LANDSCAPE ARCHITECTS.

B. Terrell Hoyt.....Minneapolis, Minn.

### LIME.

Fowler & Pay.....Mpls. and Mankato, Minn.  
Landers-Morrison-Christenson Co.....  
..Minneapolis, Minn.  
Gust Lillyblad.....Red Wing, Minn.  
Shakopee Cement Lime Manufacturing Co.....  
St. Paul, Minn.  
Speakes Lime & Cement Co., Superior, Wis.  
St. Paul Lime & Cement Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
The Northwestern Lime Co., St. Paul, Minn.

### MANTELS—GRATES.

Drake Marble & Tile Co.....  
..Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
N. W. Marble & Tile Co., Minneapolis, Minn.  
Twin City Tile & Marble Co., Mpls., Minn.

### MARBLE, TILING, MOSAIC.

Drake Marble & Tile Co.....  
..Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
N. W. Marble & Tile Co., Minneapolis, Minn.  
Thomson-Williams Co.....Duluth, Minn.  
Twin City Tile & Marble Co., Mpls., Minn.

### METAL SHINGLES.

Milwaukee Corrugating Co., Milwaukee, Wis.

### METAL AND WIRE LATH.

Corrugated Bar Co.....St. Paul, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.  
Johnson, Jackson & Corning Co.....  
..Minneapolis and St. Paul, Minn.  
Northwestern Lime Co.....St. Paul, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.  
Thomson-Williams Co.....Duluth, Minn.

### MILLWORK.

Baxter Sash & Door Co.....Duluth, Minn.  
Osgood-Blodgett Mfg. Co.....St. Paul, Minn.

### MUNICIPAL CASTINGS.

Davenport Mach. & Fdy. Co., Davenport, Ia.

### OFFICE FURNITURE.

Farnham Printing & Sta. Co., Mpls., Minn.

### ORNAMENTAL IRON AND WIRE.

Builders Iron Works Co.....  
..Minneapolis and St. Paul, Minn.  
Crown Iron Works Co.....Minneapolis  
Davenport Machine & Foundry Co.....  
Davenport, Ia.  
Denueles Bros.....Minneapolis, Minn.  
Flour City Ornamental Iron Works.....  
..Minneapolis, Minn.  
Midway Ornamental Iron Works.....  
..St. Paul, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
St. Paul Foundry Co.....St. Paul, Minn.

### PAINTS, FILLERS, ETC.

Gardner Hardware Co.....Minneapolis, Minn.  
Ricketson Mineral Paint Works.....  
..Milwaukee, Wis.

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### PACKINGS AND HOSE.

11. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.

### PAVEMENT.

Barber Asphalt Paving Co., Des Moines, Ia.  
Barrett Mfg. Co.....New York, N. Y.

### PICTURE MACHINES.

Northern Theatre Supply Co., Mpls., Minn.

### PIPE AND BOILER COVERING.

H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.

### PIPE—CAST IRON.

American Cast Iron Pipe Co.....Minneapolis

### PLASTER—WALL.

H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
Plymouth Gypsum Co.....Fort Dodge, Ia.  
Shakopee Cement Lime Co., St. Paul, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

### PLASTERING—ORNAMENTAL.

Brioschi-Minuti Co.....St. Paul, Minn.

### PLASTIC ORNAMENTS.

Brioschi-Minuti Co.....St. Paul, Minn.  
K. F. Lott & Co., Mpls. and St. Paul, Minn.

### PLUMBING AND GAS FITTING

Charles Wilkins & Co.....Minneapolis, Minn.

### PRINTING.

Farnham Printing Co.....Minneapolis, Minn.

### PRISMS.

American Luxfer Prism Co.....Chicago, Ill.  
Crown Iron Works Co.....Minneapolis

### PLUMBING AND HEATING JOBBERS.

Associate Mfrs. Supply Co.....Mpls., Minn.  
Central Supply Co.....Minneapolis, Minn.  
National Mfg. & Supply Co.....Mpls., Minn.

### RADIATORS.

Associate Mfrs. Supply Co.....Mpls., Minn.  
Central Supply Co.....Minneapolis, Minn.

### REVOLVING DOORS.

Van Kannel Revolving Door Co.....  
..St. Paul, Minn.

### ROOFING GRAVEL AND ASPHALT.

Griffin & Boehme.....St. Paul, Minn.  
H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
Krieger-Jamar Co.....Duluth, Minn.  
Minnesota Roofing & Cornice Works.....  
..St. Paul, Minn.  
Northwestern Lime Co.....St. Paul, Minn.  
Scribner-Libby Co.....St. Paul, Minn.  
Selden Roofing & Manufacturing Co.....  
..Minneapolis, Minn.  
Thomson-Williams Co.....Duluth, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### ROOFING—METAL.

Badger Steel Roofing & Corrugating Co.,  
..La Crosse, Wis.  
Duluth Corrugating & Roofing Co.....  
..Duluth, Minn.  
Gardner Hardware Co.....Minneapolis, Minn.  
La Crosse Steel Roofing & Corrugating Co.,  
St. Paul Roofing, Cornice & Ornamental  
Co.....St. Paul, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### ROOFING MATERIAL.

Barrett Mfg. Co.....New York, N. Y.  
Corrugated Bar Co.....St. Paul, Minn.  
John Leslie Paper Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
McClellan Paper Co.....Minneapolis, Minn.

### ROOFING AND SIDING—IRON AND STEEL.

Gardner Hardware Co.....Minneapolis, Minn.  
Inland Steel Co.....St. Paul, Minn.

### RUBBER SHINGLES.

Standard Salt & Cement Co., Duluth, Minn.

### RUST-RESISTING IRON SHEETS.

Inland Steel Co.....St. Paul, Minn.

### SAFES.

Diebold Safe & Lock Co., St. Paul, Minn.  
Heilig & Elliott Co., Minneapolis, Minn.  
Herring-Hall-Marvin Safe Co.

### SAND AND GRAVEL.

Standard Salt & Cement Co., Duluth, Minn.

### SAW RIGS.

H. B. Jones, 349 Security Bank Building,  
..Minneapolis, Minn.

### SEWER PIPE AND DRAIN TILE.

Ingalls Stone Co.....Bedford, Ind.  
Iowa Sewer Pipe & Tile Co., Des Moines, Ia.  
Northwestern Lime Co., St. Paul, Minn.  
Plymouth Clay Products Co., Fort Dodge, Ia.  
Red Wing Sewer Pipe Co., Red Wing, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

## REMEMBER

Announcements on this page are read by architects, contractors, and the building trade generally, all over the Northwest and produce excellent results.

### SHEETS—IRON AND STEEL.

Gardner Hardware Co.....Minneapolis, Minn.  
Inland Steel Co.....St. Paul, Minn.

### SIDEWALK LIGHTS.

American Luxfer Prism Co.....Chicago, Ill.  
Crown Iron Works Co.....Minneapolis  
K. F. Lott & Co.....  
..St. Paul and Minneapolis, Minn.

### SLATE BLACKBOARDS.

Twin City Tile & Marble Co.....  
..Minneapolis, Minn.

### SKYLIGHTS.

Krieger-Jamar Co.....Duluth, Minn.  
St. Paul Roofing, Cornice & Ornament Co.,  
..St. Paul, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### STEEL—BARS.

Inland Steel Co.....St. Paul, Minn.  
Twin City Tile & Marble Co., Mpls., Minn.

### STONE.

Babcock & Wilcox.....Kasota, Minn.  
Biesanz Stone Co.....Winona, Minn.  
Also Building Material, Gravel for Roof-  
ing, Sand and Gravel.  
Breen Stone Co.....Kasota, Minn.  
Edw. Edinger Co.....Cedar Rapids, Ia.  
Ingalls Stone Co.....Bedford, Ind.  
Kettle River Co.....Minneapolis, Minn.  
Duluth Cut Stone Co.....Duluth, Minn.  
Mantorville Stone Co.....Mantorville, Minn.  
New Ulm Stone Co.....New Ulm, Minn.  
Pioneer Granite Co.....St. Cloud, Minn.  
Sauk Rapids Granite Co.....  
..Sauk Rapids, Minn.  
Wm. Penn Stone Co.....Minneapolis, Minn.  
The Widell Co.....Mankato, Minn.

STRUCTURAL SECTIONS AND SHEETS.  
Inland Steel Co.....St. Paul, Minn.

### TANKS—STEEL.

American Bridge Co.....Minneapolis, Minn.  
Central Supply Co.....Minneapolis, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.

### TELESCOPIC HOISTS.

Avery Supply Co.....Minneapolis, Minn.

### TERRA COTTA.

Johnson, Jackson & Corning.....  
..Minneapolis and St. Paul, Minn.  
K. F. Lott & Co.....  
..Minneapolis and St. Paul, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.

### VARNISHES.

Gardner Hardware Co.....Minneapolis, Minn.  
North Star Varnish Co.....Minneapolis, Minn.  
Twin City Varnish Co.....St. Paul, Minn.

### VALVES.

Central Supply Co.....Minneapolis, Minn.  
Crane Co.....Minneapolis, Minn.  
Crane & Ordway Co.....St. Paul, Minn.

### VAULTS.

Diebold Safe & Lock Co., St. Paul, Minn.  
Heilig & Elliott Co., Minneapolis, Minn.  
Herring-Hall-Marvin Safe Co.  
Also Vault Doors, Vault Furnishings and  
Filling Equipment.

### VENTILATING SYSTEMS.

Hackney Ventilating Co., Minneapolis, Minn.  
Charles Wilkins & Co., Minneapolis, Minn.

### WALL BEDS.

Northwestern Bedding Co., St. Paul, Minn.

### WATERPROOFING.

Gardner Hardware Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co.....St. Paul, Minn.

### WATER TOWERS, STEEL.

Minneapolis Steel & Machinery Co.....  
..Minneapolis, Minn.

WINDOW SCREENS—METAL FRAME.  
O. F. Symons & Co.....Minneapolis, Minn.

### WINDOW SHADES—WASHABLE.

National Window Shade Co.....  
..Minneapolis, Minn.

### WIRE AND IRON WORKS.

Builders Iron Works.....  
..Minneapolis and St. Paul, Minn.  
Denueles Bros.....Minneapolis, Minn.  
Midway Ornamental Iron Works.....  
..St. Paul, Minn.

### WEATHER STRIPS.

Metal Weather Strip Co., St. Paul, Minn.  
O. F. Symons & Co.....Minneapolis, Minn.

### WOODWORKING.

G. E. Ingersoll.....St. Paul, Minn.



WRITE US  
FOR  
PRICES  
ON

## WHEELBARROWS

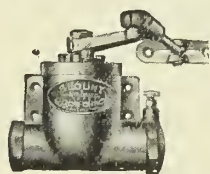
Quick Shipments      Prompt Deliveries  
Agents for Yale & Towne Hardware

**W. K. MORISON & CO.**

247-249 NICOLLET AVENUE

MINNEAPOLIS, MINN

(Cut on this line.)



**BLOUNT  
DOOR  
CHECKS**

**SEND THIS COUPON**  
with your order and we will allow you  
**A DISCOUNT OF 10% AND**  
**PREPAY FREIGHT 200 MILES**

- |  |        |
|--|--------|
| 1. For Screen Doors.....                               | \$3.25 |
| 2. For light inside Doors.....                         | 4.25   |
| 3. For heavy inside Doors not<br>over 2½x7 feet.....   | 5.00   |
| 4. For light outside or heavy<br>inside Doors .....    | 6.00   |
| 5. For heavy outside Doors not<br>over 3½x7½ feet..... | 8.00   |
| 6. For extra heavy Doors.....                          | 10.00  |

**GARDNER HARDWARE CO.**

304-306 HENNEPIN AVENUE

MINNEAPOLIS, MINN

(Cut on this line.)

## IDEAL FLOORING

Maple --- Birch --- Beech



**I. STEPHENSON CO., Trustees**  
WELLS, - - - MICHIGAN

## PLYMOUTH CLAY PRODUCTS COMPANY

FORT DODGE, IOWA

MANUFACTURERS OF

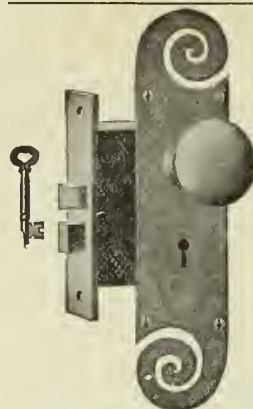
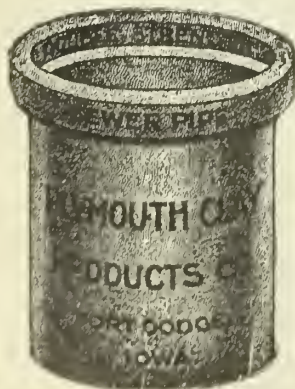
**Large Drain Tile**

**Sewer Pipe**

**Well Pipe**

**Flue Linings**

**Wall Coping**



## WARREN DESIGN COLONIAL

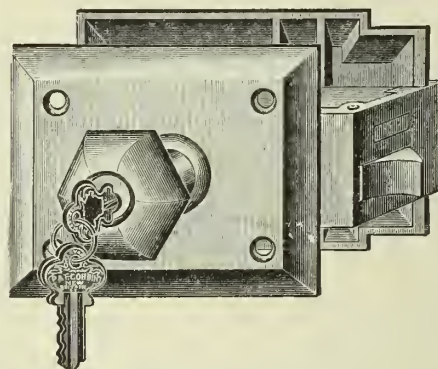
"CORBIN"

hardware provides the  
distinction and worth  
that lies in artistic de-  
signs and honest work-  
manship.

Ask for Catalogs

**WARNER HARDWARE CO.**

13 So. 6th St.  
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**CORBIN  
LOCKS**

We make a  
Specialty of fine  
Builders' Hard-  
ware and Con-  
tractors' Supplies  
Estimates fur-  
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**ADAM DECKER HARDWARE COMPANY**

347-49 JACKSON STREET

ST. PAUL, MINN.

## BUILDING MATERIALS

SASH

DOORS

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**SASH  
DOORS  
AND ALL KINDS OF  
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All Kinds

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LET US FIGURE;

ALL ESTIMATES FREE

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Face Brick      Enameled Brick

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MINNEAPOLIS, MINN.

633 Ryan Building  
ST. PAUL, MINN.



# The IMPROVEMENT BULLETIN

OFFICIAL ORGAN OF THE MINNESOTA STATE ASSOCIATION OF BUILDERS EXCHANGES

VOLUME XLVII.

SATURDAY, APRIL 4, 1914

NUMBER 18



## EDITORIAL



O. L. COLBURN, Editor

### A COMPETITION FOR MODEL FLATS POSSIBLE.

In connection with the suggestion made by university authorities that a modern apartment building be provided near the university to house members of the faculty, the question has been asked: Why not request the state art society to invite a competition of designs for a modern flat building? Prof. Frederick M. Mann, head of the university school of architecture, appears prominently in this matter; and if other sources fail he could arrange a competition himself which would bring interesting results. Details suggested up to date in Mr. Mann's project: Three-story, brick structure, of exterior in harmony with that of the newer campus buildings, though more ornate, of U-shape to insure light and air, with spacious grounds, and on a site that shall contribute to the beauty scheme of the whole, from thirty-six to forty apartments, ranging from three to six rooms each, with bachelor rooms and suites on the top floor; large cafe and private dining rooms in the basement.

### RECOMMENDATIONS ON BUILDING HEIGHT

At a meeting of the Civic and Commerce Association, Wednesday the committee on building height, Victor F. V. De Brauwere, chairman, reported its investigations and recommended:

No building to be erected or subsequently increased to a greater height than one and three-four times the width of the street, with a maximum height of 140 feet.

Not more than two stories not exceeding twelve feet each above this height, provided such stories be so constructed as not to lessen the angle of light given by a sixty-degree angle, projected from a point eighty feet from the building line at the sidewalk level across the street or roadway, or that a roof of the mansard type, containing such stories may be constructed with similar angles of light.

It shall not be permissible to construct any cornice with a greater projection than three feet but in no case shall the projection of a cornice obstruct a sixty-degree angle of light.

No limit in height shall be placed upon a structure to be called a tower having an area not exceeding 25 per cent of site, providing that no portion of the tower shall be allowed within a distance of the building line at least equal to the distance of first curb from such building line except where such building faces upon a public park, public square or body of water; then such area of 25 per cent may be built as a tower on the building line at sidewalk level.

Where any building is erected on a corner lot so as to abut upon more than one street the height of the building shall be regulated by the width of the widest of such streets, and also so far as it abuts upon the narrower of such streets, the height given by the widest street may be carried to a distance not exceeding sixty-six feet from the wider street.

## Our Standing Offer

*A year's subscription, free, is our new offer. It has never been made before. You don't have to pay for the subscription or work for it. All you have to do is to write and tell us if you have bought any goods and materials from advertisements in The Improvement Bulletin.*

*If you have ordered goods or materials to the value of fifty dollars,—mentioning The Improvement Bulletin when you order,—we will give you a full year's subscription without cost. Just mention names and dates when you write us. If you haven't already done so, look over the advertisements in this issue. You will find reliable firms in every line advertising here. There is certainly fifty dollars worth of your building materials, supplies or machinery for this season, that you can purchase in this way and get the reward we offer. A year's subscription, you see, is as good as a five-dollar bill, or a ten per cent reduction on your purchase.*

*Address Advertising Department, The Improvement Bulletin.*

### COMMISSION ON INDUSTRIAL RELATIONS BEGINS HEARINGS.

The United States Commission on Industrial Relations has announced the names of witnesses who will testify at the public hearing to be held in Washington on the subject of Collective Bargaining, Conciliation and Arbitration.

The hearings will be held in the assembly room of the Shoreham hotel beginning Monday morning, April 6, and will continue for four days. Frank P. Walsh, chairman of the commission, will preside, and all of the nine commissioners will be present.

Each of six large industries in which trade agreements or other forms of collective bargaining have been in operation during considerable periods will be considered separately. On Thursday, April 9, the final session of the hearing will be devoted to testimony on the general subject without reference to particular industries.

Witnesses at the final session will be Samuel Gompers, president of the American Federation of Labor; J. A. Emery, counsel for the National Association of Manufacturers; Seth Low of New York City, president of the National Civic Federation; C. P. Neill of New York City, former United States commissioner of labor; Judge W. C. Chambers of the United States Board of Conciliation and Mediation; Louis D. Brandeis of Boston, and J. E. Williams of Streator, Ill., chairman of the board of grievances in the cloak, suit and skirt industry of New York City.

The session of Monday morning, April 6, will be devoted to the coal mining industry. Frank Peabody, of Chicago, one of the largest operators in the bituminous field, and another operator, still to be named, will testify for the employers. Witnesses for the employees will be John Mitchell, of New York, and John P. White, of Indianapolis, president of the United Mine Workers.

The Monday afternoon session will be devoted to the molders' trade. The witnesses will be Joseph F. Valentine, of Cincinnati, president of the International Molders' Union, and John F. Frey, of Cincinnati, editor of the Molders' Journal, for the employees; Thomas J. Hogan, of Chicago, secretary of the Stove Founders' National Defense Association, and O. P. Briggs, of Chicago, former president of the National Founders' Association, for the employers.

On Tuesday morning witnesses from the clothing industry will appear. The employers will be represented by Julius Henry Cohen of New York City and Joseph Schaffner of Chicago. J. S. Rosenberg, president of the International Ladies' Garment Workers' Union of New York City, and Sidney Hillman, chief clerk of the joint board of cloak and shirt makers' unions in New York City, will testify for the operatives.

The hearing Tuesday afternoon will be on the printing trades. Witnesses will be H. N. Kellogg of Indianapolis, commissioner of the American Newspaper Publishers' Association, and E. L. Fell, Philadelphia, representing the United Typothetae, for the employers; James M. Lynch, commissioner of labor, New York State, and George L. Berry, of Rogersville, Tenn., president of the International Printing Pressmen and Assistants' Union, for the employees.

On Wednesday morning witnesses from the building trades will be heard. Henry Struble, of Chicago, secretary of the National Cut Stone Contractors' Association; O. M. Eidlitz, a New York contractor, and a representative architect, will appear for the employers. For the employees the witnesses will be William Dobson, of Indianapolis, secretary of the Bricklayers' and Masons' International Union; T. J. Williams, of Washington, president of the building trades department of the American Federation of Labor, and John R. Alpine, of Chicago, president of the Plumbers', Steamfitters' and Gasfitters' Association.

The hearings as to particular industries will be concluded Wednesday afternoon, with the testimony of railroad officials and employees. The witnesses will be Daniel Willard, of Baltimore, president of the Baltimore & Ohio Railroad, and Elisha Lee, of Philadelphia, third vice president of the Pennsylvania Railroad, for the employers; W. G. Lee, of Cleveland, Ohio, president of the Brotherhood of Railroad Trainmen, and H. B. Perham, of St. Louis, president of the Order of Railway Telegraphers, for the employees.



# MINNESOTA STATE ASSOCIATION of BUILDERS' EXCHANGES

COMPOSED OF 700 LEADING BUILDERS, CONTRACTORS AND MANUFACTURERS OF MINNESOTA

<b>President</b> H. M. Gardner - Minneapolis Gardner Hardware Co. <b>First Vice President</b> F. J. Romer - St. Paul <b>Second Vice President</b> E. J. Zauft - Duluth, Minn.	<b>Third Vice President</b> O. H. Olson - Stillwater, Minn.  <b>Fourth Vice President</b> W. S. Kingsley, Faribault, Minn.	<b>Fifth Vice President</b> Olaf Swendsen - St. Paul Minn.  <b>Secretary and Treasurer</b> Eugene Young - Minneapolis Care Builders' Exchange	<b>Executive Committee</b> James Leck - Minneapolis F. J. Nixon - Duluth J. A. Roberts - St. Paul Fred Lammers - Stillwater Jas. O'Neil - Faribault
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THE IMPROVEMENT BULLETIN IS THE OFFICIAL JOURNAL OF THIS ORGANIZATION

## THE NEW IOWA MECHANICS LIEN LAW.

By Frank C. Buyers, Cedar Rapids, Iowa.

The thirty-fifth general assembly of Iowa repealed a portion of the mechanics' lien law and enacted an amendment in lieu thereof. The amendment is applicable particularly to the rights and duties of sub-contractors, which includes material men, and its terms are most beneficial, furnishing added protection to material men. This new law went into effect on the fourth day of July, 1913, and governs rights under contracts entered into since that date. The supreme court of Iowa has not yet had an opportunity to pass on any of the phases of the amendment. We must, therefore, consider this new enactment in connection with the other sections of the chapter on mechanics' liens and in the light of the reasoning of our supreme court in decisions on mechanics' liens in general.

Every person who shall perform work or furnish any materials, machinery or fixtures for any building, erection or other improvement upon land, including those engaged in the construction or repair of any work of internal improvement by virtue of any contract with the owner, his agent, trustee, contractor or sub-contractor, is entitled to a lien upon such buildings or improvement and upon the land. To entitle a person to a lien it is necessary that there be a contract between the person claiming the lien and the owner, agent, contractor or sub-contractor. It is not necessary, however, that the contract be expressed; an implied contract is sufficient.

While the statute provides that there be a contract with the owner, this does not necessarily mean the one who has an absolute and perfect legal title to the land. By separate section of the mechanics' lien law the word "owner" has been defined for the purposes of the statute, and a contract with any person for whose use or benefit any building, erection or other improvement is made is included in the word "owner." A party in possession under contract of purchase, by the terms of which his rights are to be forfeited on failure to pay the contract price as agreed, is an owner in such a sense that a mechanics' lien will arise under contract with him for improvements on such premises. One furnishing material to a husband for an improvement to be erected upon the wife's premises will not entitle the material man to a lien without the acquiescence of the wife. If the material is furnished for the use and benefit of the wife and at the request of the husband, acting as her agent, a lien may be had upon her property, but it will not be presumed from the marital relation alone that the husband is authorized to act in the matter as the agent for the wife. Consent of a landlord that the tenant shall erect a building on leased premises does not subject the land to the lien for the materials furnished, but only the building, and the same is true where materials are furnished for an improvement upon land under contract with one having no interest therein or authorized to contract for the owner of the land. Where a building is erected on leased land, a forfeiture of the lease for non-payment of rent or for any other reason shall not forfeit or impair such lien upon the improvement, but same may be sold to satisfy the lien and be moved away by the purchaser of same.

Where material is furnished for the erection of two or more buildings and the person furnishing it is not able to designate what items were sold for one and what for the other, all the material being sold under a single contract for

the two buildings, a lien on both buildings for the entire amount may be claimed.

The burden is on the sub-contractor before he can avail himself of the benefits of the provisions in his favor to show that the material furnished by him was actually for the improvement against which the lien is claimed, and, if as to that matter he is deceived by the contractor without the fault of the owner, he is not entitled to a lien as against the owner.

In filing and foreclosing the lien the statutes should be exactly complied with.

The party filing statement for mechanics' lien is held to the strictest exercise of good faith. An unintentional mistake which has caused no injury and which was without any purpose to defraud will not defeat the lien. Foreclosing the lien, the two-year period of time within which it is necessary to enforce the lien begins to run from the expiration of the thirty days allowed by statute for the filing of the statement, whether the statement be filed within that time or not.

While there is a definite time given within which to file a claim for mechanic's lien, the lien attaches to the real estate from the first date of furnishing any of the material, and not from the subsequent date of filing the claim. As between mechanic's lien holders, they take priority in the order of their filing. As between other lien holders, such as mortgage liens, the mechanic's lien attaching from the day the material is first furnished, if during the construction of the building or improvement a mortgage is executed upon the premises and is filed, which is prior to the filing of the mechanic's lien, nevertheless, the mechanic's lien will be superior. Where the mortgage is on record prior to the furnishing of materials for a building, the person so furnishing the materials has a prior lien on the building as against the mortgagee of the land and upon foreclosure of the mechanic's lien, the building might be treated as personal property and sold separately and removed. If, however, the nature of the improvement is such that it cannot be removed the separate values of the land and the improvement shall be ascertained and, upon sale of the whole, the proceeds shall be distributed so as to secure the prior mortgage priority upon the land and to the mechanic's lien priority upon the building or improvement.

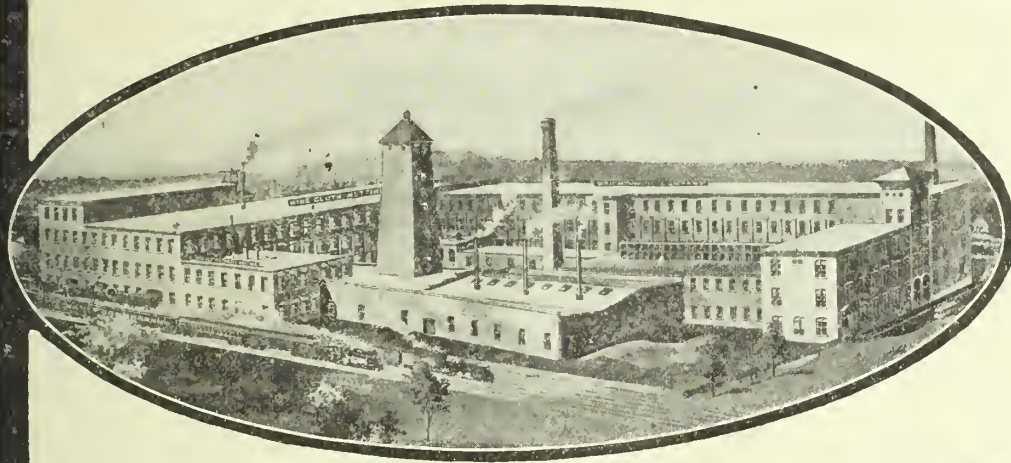
The principles which I have thus far dealt with have been established for some time, and the amendment to the lien law does not in any way affect these principles. I will endeavor to point out the manner in which the amendment has affected the interests of the sub-contractor furnishing material. Formerly, to preserve his lien against the owner and to prevent payments by the latter to the principal contractor, or to intermediate sub-contractors, it was necessary for the sub-contractor furnishing material to serve a written notice of the filing of his claim upon the owner within thirty days after the last material was furnished. If no such notice was served, then the owner or contractor could proceed to make payments and adjust claims without regard to the lien of the material man, unless they were charged with actual notice that he had furnished material. The law in its present form relieves the material man from serving any notice upon the owner.

## GRAND FORKS BUILDERS' AND TRADERS' EXCHANGE.

Plans for the 5-story and basement building for the Scandinavian American Bank building are on file at the Grand Forks Builders' and Traders' Exchange. Bids will be taken till noon, April 29. Buechner & Orth, architects, St. Paul.



# Why you should be interested in Roofing



Wright Wire Company  
Worcester, Mass.

Buildings covered with Barrett  
Specification Roofs.

FREQUENTLY the building of a roof on a factory or warehouse, or any building, is regarded as merely incidental to the whole proposition.

Great care and thought are spent in deciding whether to use stone or concrete for the foundation. Even the choice of materials for the fence about the place gets its share of attention.

But with many owners of buildings the roof is only a roof and they take it as a matter of course that they must repair leaks every now and then.

Do you realize that this is the wrong viewpoint?

The roof is a most important part of the structure. If properly specified you will be free from leaks and trouble and expense.

The Barrett Specification is the scientific standardization of an old established theory of roofing—one that has stood for years as the best in roofs—namely, a combination of coal tar and pitch, tarred felt and gravel or slag.

*Barrett  
Specification  
Roofs*

If you want a really waterproof, fire-retardant roof covering that will last 20 years or more, be sure you get a Barrett Specification Roof.

## Special Note

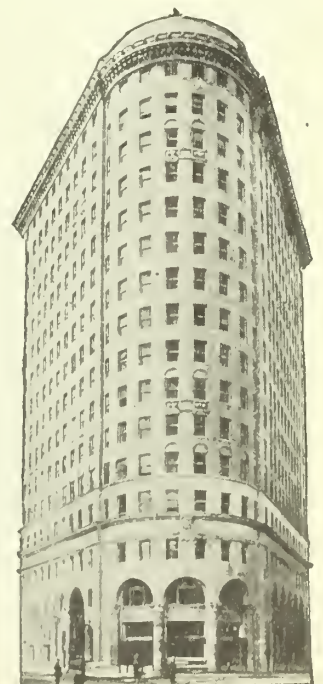
We advise incorporating in plans the full wording of the Barrett Specification, in order to avoid any misunderstanding.

If any abbreviated form is desired, however, the following is suggested:

ROOFING—Shall be a Barrett Specification Roof laid as directed in printed Specification, revised August 15, 1911, using the materials specified and subject to the inspection requirement.

The Turks Head Building  
Providence, R. I.  
Architects, Howells & Stokes  
Builders, Thompson-Starrett Co.,  
New York

*Barrett Specification Roof*



*A copy of the Barrett Specification in full sent free on request. Every owner, builder and engineer should have it.*

## BARRETT MANUFACTURING COMPANY

New York Chicago Philadelphia Boston  
Cleveland Cincinnati Minneapolis Pittsburgh  
THE PATERSON MANUFACTURING CO. Limited  
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Seattle Birmingham  
Montreal Toronto Winnipeg  
Sydney, N. S.





# PERSONAL AND GENERAL NEWS.

## Doings of the Northwest this Week Boiled Down for Busy Readers

### PERSONAL AND GENERAL.

Secretary Young of the Minneapolis Builders' Exchange, announces that through the courtesy of the Universal Portland Cement Co., the Exchange has secured that part of its exhibit at the Cement Show held in Chicago which is known as the "Sack Morgue" and it will be on exhibit in the Exchange rooms from April 2 to April 11 inclusive. This exhibit is of particular interest to our membership in that it shows graphically the way in which cement sacks are destroyed and presents the question in an interesting and entertaining way. A representative of the Universal Portland Cement Co., will be in the Exchange rooms daily from 12 m. until 2:00 p. m., ready to explain any questions which might arise in connection with the Morgue. It will be well worth everybody's while to see this exhibit.

E. R. Cobb, for nearly five years secretary of the Duluth Builders' Exchange, has resigned and is devoting his time to the duties as secretary of the school board. A permanent successor has not been appointed.

Messrs. Babcock and Wilcox of Babcock & Wilcox, Kasota Stone Quarries, Kasota, Minn., were in the Twin Cities this week on a business trip.

Manager Martin of the Minneapolis office of the Twin City Brick Co., who has returned after a six months' trip east and south, inspected a number of brick plants and made his first call at the capitol of his country, Washington, D. C.

Minneapolis Steel & Machinery Co., P. E. Lattner, contracting engineer, Spokane, Washington, has recently secured orders for the Cheney, Washington, normal school, the new Lincoln theater building, Spokane, and loading shed for the St. Maries Lumber Co., a total of 650 tons.

W. P. Alsip, president of the Alsip Brick & Tile Co., Ltd., Winnipeg, reveals what it means to call a man a "brick." He asserts that a man is like a brick:—1, when he is square; 2, when he is solid; 3, when he is sound; 4, when he carries great weight; 5, when he has grit; 6, when he is substantial; 7, when he weathers the storm; 8, when he houses the family; 9, when he has more or less sand; 10, when he makes a success of what he enters into; 11, when he is the foundation of something worth while; 12, when he is taken from a wreck and reconstructed; 13, when he is indestructible.

### ARCHITECTS AND ENGINEERS.

Albert Sutterlind, Wheaton, Minn., architect, was in the city this week on business.

"Athens, Rome, Washington," types of the city beautiful, was the subject of a most interesting lecture March 27, at Plymouth Congregational church by Dr. Mitchell Carroll of Washington, D. C., under the auspices of the St. Paul branch

of the Archaeological Institute of America. President Thos. G. Holyoke and members of the Gargoyle club were especially invited guests.

### BUILDERS' EXCHANGE, MINNEAPOLIS.

There is going to be something doing at the Exchange Thursday evening, April 8. Full particulars will be sent to members.

Plans on file March 28, 1914: Store, Valley City, N. D., bids open at once; hotel, Bemidji, Minn., bids open April 1; cottage No. 9, Anoka, Minn., bids open April 8; cottage No. 8, Anoka, Minn., bids open April 8; bank, Beltrami, Minn., bids open April 9; theater, Windom, Minn.; store, Faribault, Minn., (Wm. O'Neil & Son); Elks' Home, Miles City, Mont.

Bids in: Church, Delano, Minn.; heating and plumbing, school, Minot; theater, Sioux City, Iowa.

Contracts awarded: Knights of Columbus building, Wells, Minn., H. Zenz, Minneapolis; school, Newton, Iowa, J. Maine & Sons, Des Moines; postoffice, Williston, N. D., G. W. Stiles, Chicago, Ill.; court house and postoffice, Minot, N. D., J. Lauritzen, Fergus Falls, Minn.; postoffice, Le Mars, Iowa, (all bids rejected); school, Hesper, Skram & Kvalheim, Maddock, N. D.; school, Hesper, heating and plumbing, V. E. Brandry, New Rockford, N. D.; Carnegie library, White Bear, C. E. Davies, White Bear; St. Mary's school, White Bear, W. H. Jackson, White Bear; heating and plumbing, school, New Ulm, J. P. Adamson & Co., St. Paul; store, C. F. Ladner, St. Cloud, Minn., Ed. Hirt, St. Cloud; concrete and brick building, Glendive, Mont., W. G. Perham, Glendive; municipal building, Ellendale, N. D., Burnett & Nibbe, Lidgerwood, N. D.; bank and office building, Ironton, Minn., A. Nelson, Perham, Minn.; church, Aberdeen, S. D.

Bids rejected: high school, Des Moines, Iowa, A. H. Newman & Co., Des Moines, Iowa; mechanical equipment, Des Moines, Iowa, M. J. Corcoran, Des Moines, Iowa; First State Bank, Hoven, S. D.

### INSTALL MANY ELEVATORS.

Lee & Hoff Manufacturing Co., St. Paul, Minn., have recently installed electric elevators as follows:

Electric freight elevators for Shapiro & Bro., Webb Publishing Co., Michaud Bros. and Friedman Bros., St. Paul, electric passenger elevator for the Devils Lake hospital, Devils Lake, N. D., electric freight elevator for the Cherry Creamery Co., St. Paul, electric freight elevator for Robson-Hilliard Co., Pipestone, Minn., electrical passenger elevator for Schuneman & Evans; one electric passenger elevator, three electrical freight elevators and one automatic push button type elevator for the new Gordon & Ferguson building, electric passenger elevator and dumb waiter for the St. Paul hospital, electric freight elevator for the new building of Wm. R. Burkhard Co., electric freight elevator for Seabury & Co., two electric freight elevators for the new building of Brown & Bigelow, St. Paul, freight elevator for the C. St. P. M. & O. Ry. Co., at Woodville, Wis.

### ELEVATORS UNDER CONSTRUCTION.

Two electric freight elevators and one electric push button type elevator for the Northwestern Realty Co., electric freight elevator for J. W. Mason, two electric passenger elevators for the new Arcade, St. Paul. One electric freight elevator for the Sheldon Bottling Works, Sheldon, Iowa, one electric push button elevator for the residence of Mr. James F. Bell, Minneapolis, and one electric freight elevator for the Schurmeier Wagon Co., Minneapolis, Minn.; electric freight elevator for the Dakota Produce Co., Aberdeen, N. D.; elevator for city and county hospital, St. Paul.

Among contracts on hand are electric elevators for the Casey Milk Co., Smythe Printing Co., and electric passenger and freight elevators and push button dumb waiter for the Minnesota club, St. Paul.

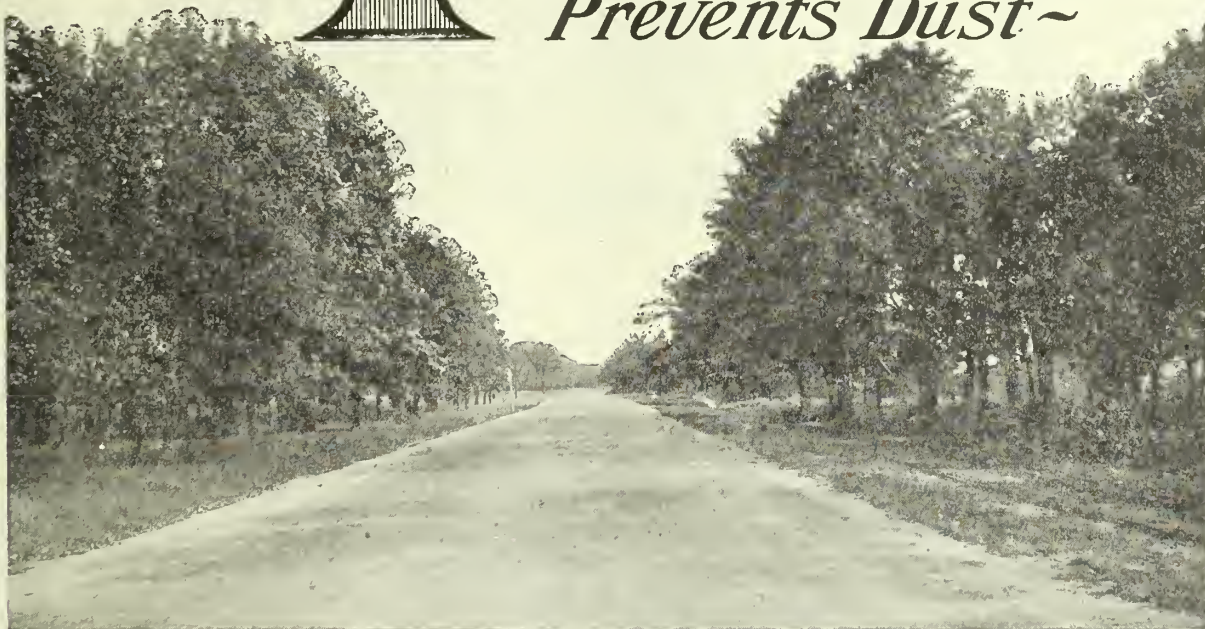


This is one of the many new manufactories in Minneapolis, the McLoughlin-Gormley-King Spice factory, southeast; plans by Bell, Tyrie & Chapman; R. J. Cheney Co., general contractors; Turner mushroom system of reinforced concrete used.



# Tarvia

*Preserves Roads  
Prevents Dust~*



Boulevard, East side Mississippi River, Minneapolis, Minn. Treated with Tarvia

## Automobile-Proof Highways

THE automobile has changed the problems of the road builder. What is required now is a form of construction which will not only give a good road surface the whole year round, but which will resist the abrasive action of automobile driving wheels. Tarvia furnishes the solution.

Tarvia is a dense, viscid, coal tar product, resistant to weather, water and traffic. It has the property of sticking to cold stone and retaining its adhesiveness for many years.

It forms a matrix about the stone, making a Tarvia-concrete which is waterproof and automobile-proof. Being slightly viscid and plastics it is not abraded by automobile driving wheel,

but is simply rolled down. No dust is formed and no mud.

The cost of maintenance is so greatly reduced as to more than offset the cost of the Tarvia.

Suburban streets should be tarviated to secure a handsome, cleanly, mudless pavement at a low cost. Automobile thoroughfares and highways should be tarviated to keep down the maintenance expense. Park and cemetery roads should be tarviated to make them dustless and sightly.

Boulevards should be tarviated because no other form of macadam will stand the traffic.

Booklets on request.

### BARRETT MANUFACTURING COMPANY

New York	Chicago	Philadelphia	Boston	St. Louis	Kansas City	Cleveland
Cincinnati	Minneapolis	Pittsburgh	Seattle	Birmingham		
THE PATERSON MFG. CO., Limited: Montreal			Toronto	Winnipeg	Vancouver	
St. John, N. B.			Halifax, N. S.	Sydney, N. S.		







## Clean Up The Alley!

The unimproved, muddy, rutted, fly-infested, weed-sprouting, malodorous alley is a menace to health and a waster of wealth. It is a hot-bed for propagation of disease germs. It increases the cost of hauling and delivering. It shortens the life of a drayhorse. This double-headed problem of health and economy is satisfactorily solved by

### Concrete Alley Pavements

which make the maintenance of cleanliness easy and the delivery of goods quicker and cheaper. The concrete alley pavement is a permanent improvement. It means an advance in property values. Its looks are an asset to a neighborhood. Its first cost and maintenance charges are low. Use

# UNIVERSAL PORTLAND CEMENT

*It is always uniform*

Insist on a concrete alley pavement. Let us send you a copy of our booklet, "Concrete Alley Pavements."

**UNIVERSAL  
PORTLAND CEMENT CO.**

OFFICES: { CHICAGO - - - 208 South La Salle Street  
PITTSBURGH - - - Frick Building  
MINNEAPOLIS - - - Security Bank Building

Annual Output 12,000,000 Barrels :: :: :: Plants at Chicago and Pittsburgh



# CONSTRUCTION & CONTRACT NEWS

OF SPECIAL VALUE TO ENGINEERS, CONTRACTORS, BUILDERS AND MANUFACTURERS

## MINNEAPOLIS, MINN.

Office: 912 Lumber Exchange. Phones: N. W. 3902; T.-S. 2194. Please telephone news not later than Wednesday.

Items marked with asterisk not in daily sheets.

### Building Permits.

Excelsior Baking Co., 914-16 E. 24th st., 2-story brick, tile and reinforced concrete addition to bakery; J. L. Robinson, builder ..... 9,000  
John R. Bursh and Joseph A. Bursh, 2621 2d av. S., 2-story brick veneer flats (4) ..... 7,000  
Andrew T. Anderson, 3021 3d av. S., 2-story plaster veneer flats (4) ..... 6,000  
T. K. Setre, 3708 16th av. S., 1-story plaster veneer dwl. .... 2,100  
Peter Foss, 2014 Central av., concrete block garage (1 and 2-story) ..... 5,000  
P. G. Speakes, 2845-47 2d av. S., concrete foundation; P. J. Sonner, builder ..... 2,500  
Fred Dean, 3955 Nokomis av., 1½-story frame dwelling, L. W. Harrington, builder ..... 2,000  
John C. Witte, 30-32 Central av., brick elevator hatchway and repairs after fire ..... 3,000  
Schock Peter, 811 Columbia Blvd., 1-story frame dwelling ..... 4,000  
L. E. Hellner, 1115 E. 38th st., 1½-story plaster veneer dwelling ..... 2,100  
L. E. Hellner, 1119 E. 35th st., 1½-story plaster veneer dwelling ..... 2,600  
L. E. Hellner, 1121 E. 38th st., 1½-story plaster veneer dwelling ..... 2,600  
Ralph R. Gregory, 4224 Chicago av., 1-story plaster veneer dwelling; Louis Erickson, builder ..... 2,000  
Kienzie Merrick Manufacturing Co., 1214-16 S. 3d st., 3-story brick and reinforced concrete addition to factory; W. H. Arrel & Co., builder ..... 9,000  
Carl A. Erickson and Olaf Norden, 3221-23 Bloom av., 2-story plaster veneer and brick veneer duplex; J. A. Vallila, 3237 S. Dupont av., 2-story plaster veneer duplex; C. W. Lundquist Co., builders ..... 4,800  
H. O. Doeltz, 4115 S. Dupont av., 2-story plaster veneer and brick veneer dwelling ..... 4,600  
W. S. Chase, 1800 Stevens av., 3-story brick apartments, (31)—W. S. Chase, builder ..... 5,000  
W. S. Chase, 1808 Stevens av., 3-story brick apartments (31); W. S. Chase, builder ..... 25,000  
F. W. Finke, 1721-23 Vine Place, 4-story brick and reinforced concrete apartments (32); F. W. Finke, builder ..... 25,000  
F. W. Finke, 1801-05 Vine Place, 4-story brick and reinforced concrete apartments (32); F. W. Finke, builder ..... 40,000  
E. D. O'Hanlon, 3648-50 S. Bryant av., 2-story frame addition to dwelling, alterations, change dwelling into duplex; Aug. F. Peterson, builder ..... 40,000  
E. G. Walton Agency, 3026 39th av. S., 1½-story frame dwelling ..... 2,000  
John B. Ring, 3914 Upton av. N., 1½-story brick veneer dwelling ..... 2,300  
Hulda Anderson, 4015 2d av. S., 2-story plaster veneer duplex; S. Bart, builder ..... 2,000  
S. S. Bright, 3031 40th av. S., 1½-story frame dwelling; Dawson Bros., builders ..... 5,600  
A. W. Thayer, 3940 Garfield av., 2-story plaster veneer dwelling; J. O. Wardell, builder ..... 2,000  
Jonas Erickson, 1078 17th av. S., 1½-story plaster veneer dwelling; J. P. Lonquist, builder ..... 2,800  
Ernest W. Blad, 2730 Ullysses st. NE, 1½-story frame dwelling ..... 2,550  
C. R. Ahl, 3148 39th av. S., 1-story plaster veneer dwelling; C. R. Ahl, builder ..... 2,000  
Chas. A. Berger, refrigerating engineer, Sykes block, has prepared plans for remodeling and adding to Island Farm creamery, Hibbing, Minn.; 25x40; dairy and ice cream departments, installing cold storage and refrigerating machinery, contract let for building; owners will buy equipment; Mr. Berger also has prepared plans for modern slaughter

house and sausage plant at New Ulm, Minn., for Andrew Saffert; brick, cement floors, drainage, machinery, over-head tracking; Fred Kute, general contractor.

O. K. Westphal, architect, Northwestern building, will have plans out in 10 days for a modern residence, 16th and Irving N., for John Kraft; frame stucco exterior, tile roof, garage and tunnel, tile bath, with complete equipment including showers, site., etc., porches, reinforced concrete porch floors, art glass, plate glass, hot water heat, fireplace, sleeping porch, laundry, vacuum cleaner, 28x50, 2-story, \$8,000, see architect for figures.

O. K. Westphal, 615 N. W. building, has furnished plans for a modern flat building, Lagoon and James for W. C. Briggs, 12-family, 120x35, 3-story, brick, hardwood floors and tile floors, laundry trays, electric light and gas, steam heat, refrigerator, gas stoves, sideboards, plate glass, electric bells and phones, composition roof, garage and coal chutes, ash lift, birch nish, plans out April 1; owner takes figures, Bedford stone trim.

S. J. Groves & Sons, earth contractors, Kasota block, have started excavation for large modern station, St. Railway Co., 24th to 26th av. N. on Washington; also excavation for additional building, Great Northern station opposite present building in place of old station; express, parcel post and baggage, 300 feet long; Gindie Co., Chicago, general contractor; material and design like main station.

\*Downs & Eads, architects, New York Life building, have prepared plans for a wholesale bakery at Sioux Falls, S. D., for Henry Levinger and others; brick, stone, 2-story, mill construction, flat roof, freight elevator, steam heat, composition roof, filtration plant, steel, 66x61, \$25,000; contracts let about May 1.

\*C. E. Bell, architect, Security Bank building, is preparing plans for a bank building at Tower City, N. D.; 1-story, brick, stone, fireproof, granite columns, vault, ceiling light entirely, fixtures, vault, tile floor, heating, plumbing, wiring. Owner, First National Bank, and architect will take figures.

C. S. Sedgwick, architect, Lumber Exchange, has furnished plans for a modern dwelling at 4115 S. Dupont, for H. O. Doeltz, 38x33, 2-story, plaster veneer and brick veneer, electric light, tile bath, hot water heat, sleeping porch, sun-room, mantel, \$5,000; day labor.

Two modern residences are to be built in Lake of the Isles district by Wm. J. Russell, Gregory, Jennison & Co., Chamber of Commerce and Dr. Frank C. Todd; J. B. Tabour, real estate, McKnight building handled real estate deal; to cost \$30,000 each.

Three flat buildings costing \$150,000 will be built at 3d av. S. and 19th st., following the sale of four lots by W. W. Heffelfinger Realty Co. to H. H. Placke. The first building will be built next summer. The corner is 200 feet front by 128 feet on 19th st.

U. L. Watts, contractor, 2513 Central av. is building two modern duplexes for Dr. Brady, Marshall st., at 2536 Pierce, frame, 2 hot water heating plants; for John Carlson 600 27th av. S., tailor, at 2229 Ullysses, frame, 2 hot water plants; sub-contracts let.

\*Bids are being taken on the school at Ivanhoe, Minn., and will be in April 4. H. Edward Walker, architect, Lumber Exchange; W. H. Nevin, clerk, Ivanhoe. Revised plans for the bath house at Excelsior, Lake Minnetonka, have been delivered.

New building to cost \$120,000 authorized by board of Minnesota College on campus, 600 Delaware st. SE.; assembly hall for 2,000, offices, laboratory, gymnasium, swimming pool, pastor, Emmanuel Lutheran church, 13th av. and Monroe, interested.

Heating, plumbing and wiring, Hampden, Iowa, school, will be let April 24; plans with school board; after April 6; C. Howard Parsons, architect, Phoenix building; plans for Ely school, and Irahner city hall, ready for letting some time in April.

\*A. R. Van Dyck, architect, McKnight building, is preparing plans for a residence at Wabasha, Minn., for W. H. Anderson; modern, hot water heat, plumbing, heating, wiring; brick mantel, tile bath, stucco exterior; owner will take figures.

C. Howard Parsons, architect, Phoenix

building, will have plans out this week, for hotel Kelleher, Minn., for Geo. A. Gunderson Co.; frame, plumbing, heating, wiring, 2-story, owner taking figures, may be day labor.

L. E. Hellner, 2945 Bryant av. N., is building a modern dwelling at 115 E. 38th, 22x24, 1-story, plaster veneer, hardwood, plumbing, gas, \$2,100; day labor, plans by Glen L. Saxton, Plymouth building.

Four flat buildings, 32 flats each will be built by F. W. Finke, 1807 Vine Place at 1727 Vine Place, 1721-23 Vine Place; 40x115, 4-story, brick and reinforced concrete, \$40,000 each; all modern.

Contract was awarded through Minneapolis office of the Gallion Iron & Manufacturing Co., Gallion, O., for a 10-ton roller, grader and other machinery for Mower county, Minn.

Peter Schoch, 3122 SE. 4th, is building a modern dwelling, frame, \$4,000, at 811 Columbus Blvd., 42x35, hot water heat, plumbing, laundry trays, sleeping porch; day labor.

\*Owner of the dwelling at Lester Prairie, Minn., plans by Kirby T. Snyder, architect, Plymouth building, is H. Englar, lumber dealer; not Ingalls, as erroneously reported.

J. A. Vallila, 3021 Colfax av. S., is building a duplex at 3237 S. Dupont, 24x53, plaster veneer, hot water heat, modern, \$1,600; C. W. Lunquist Co., contractors.

J. L. Robinson & Co., contractors, 511 S. 7th, are building an addition for Excelsior Baking Co., brick, concrete, 2-story, 44x70, maple and cement floors.

\*A. R. Van Dyck, architect, is making plans for a summer cottage at Lake Minnetonka for Arnold Guesner; frame, brick mantel, plaster board.

Site for Hennepin County Tuberculosis sanitarium selected, Glen Lake; E. C. Gale, Security Bank building on committee; cost \$50,000. E. H. Sund, architect.

An automobile warehouse will be built at 907 Hennepin by R. W. Munzer; cost, \$75,000; 4-story, 34x135; deal made by Heffelfinger Realty Co.

\*Contract for addition to Aldrich Avenue Presbyterian Church let to W. P. Doeltz & Sons, 303 Plymouth; Haley & Johnson, architects.

\*Kees & Colburn, architects, will have plans out in about two weeks for the business block, Sioux Falls, for Look & Look.

City is preparing to build a sewer and waterworks warehouse on 26th, Hiawatha and Longfellow.

Selden Roofing & Manufacturing Co., 76 Western, bought site for new plant at 1218-1220 1st av. N.

Plans of Powder Horn park pavilion and Judson Memorial church are being figured this week.

\*Minneapolis permits for March showed a gain of over 100 per cent over March, 1913.

\*Wm. Rahr & Sons Co., Manitowoc, Wis., will build \$350,000 malt house in Minneapolis.

Fire damaged Clover Leaf Dairy barn, 420 20th av. N., \$2,500; C. A. Nelson, owner.

## DES MOINES, IOWA

Bert N. Mills, Representative.  
310 Hubbell Building.

Des Moines refused Monday to grant a franchise to the Automatic Telephone Co., which proposed to install an automatic system here; advocates of municipal ownership now propose to have an election on the question of an automatic system to be built by the city.

Municipal ownership of the water works system was defeated in Des Moines Monday by a close vote; a complicated ballot is believed to have been the cause and the issue probably will be voted upon again at the primary election in June.

Hal R. Howell, president, Commercial Realty Co., announced architects are working on plans for an 8-story apartment house and family hotel this year on 7th and Pleasant; modern, fireproof.



# PROPOSAL ADVERTISING FOR BIDS

## PROFESSIONAL DIRECTORY

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OFFICIAL ADVERTISEMENTS for proposals will be published in this department on receipt of copy with order from authorized official, building committee, architect or engineer.

**RATE FOR NOTICES** In this department—15c per line each insertion. No discounts allowed. Several insertions are customary to insure full and fair competition.

**PRINTED SLIPS** are furnished to officials, architects and others interested, for distribution by them, without extra charge.

**PROFITABLE INVESTMENT**—It has been the experience of those who have used this medium that by investing a few dollars they have saved hundreds.

**COPY RECEIVED** up to Friday, 10 a. m., will be published in the paper, delivered to subscribers on Saturday, but should reach the publication office, Lumber Exchange, Minneapolis, earlier in the week, when possible.

**LATE NOTICES** Friday morning can be transmitted by long distance telephone.

### PROPOSALS FOR METAL FURNITURE, ELECTRIC LIGHT FIXTURES, ETC.

Aberdeen, S. D.

The undersigned hereby gives notice that sealed proposals for the wood furniture, the metal furniture and the electric light fixtures including all labor and material necessary to install same complete ready for use, will be received by F. W. Raymond, Aberdeen, S. D., until the hour of 10 A. M., on the 20th day of April, 1914, for the wood furniture, on the 27th day of April, 1914, for the electric light fixtures, and on May 11, 1914, for the steel furniture.

All bids must be in strict accordance to the plans and specifications, prepared by Geo. F. Fossum, Architect of Aberdeen, S. D., which may be seen at the office of the architect on and after the date given below, for the wood furniture and electric light fixtures and on and after March 28, 1914, for the steel furniture.

A certified check for 5 per cent, payable to the order of Geo. Bolles, must accompany each bid as a guaranty, the same to be returned to the unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the full sum of the bid for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed) F. W. RAYMOND,  
Auditor,  
Aberdeen, S. D.

Aberdeen, S. D.,

### NOTICE TO CONTRACTORS. Sewers, Sumner, Iowa.

Sealed bids will be received by the Town Clerk of Sumner, Iowa, until 7:30 P. M., May 6, 1914, for the construction of the following sewers:

13,345 feet 8-inch sewer.  
8,675 feet 10-inch sewer.  
1,460 feet 12-inch sewer.  
46 manholes.  
16 flush tanks.

Disposal tank complete.

E. A. WISNER,  
Town Clerk.  
M. TSCHIRGI & SONS,  
Cedar Rapids, Iowa.  
Engineers.

(Continued on Page 16.)

## PROFESSIONAL DIRECTORY

### ENGINEERS

**OSCAR CLAUSSEN ENGINEERING COMPANY**

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Landscape Architect and Forester. Landscape plans made and executed for the development of parks, playgrounds, cemeteries and private grounds throughout the Northwest. Satisfaction guaranteed. Address 32 Linnaean Street, Cambridge, Mass.

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Estimates gladly furnished Clinton, Iowa

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## ST. PAUL, MINN.

404 Scandinavian American Bank Building.  
Phone: N. W. Cedar 1683. Mail or telephone  
news not later than Wednesday.

Items marked with asterisk not in daily sheets.

## BIDS WANTED.

E. F. Sianolt, 1772 Selby, 1½-story frame dwelling Cambridge near Lincoln; Louis Linder, builder.....	4,000
Albert E. Olson, builder, 509 Case, 1½-story frame dwelling, 1875 Autumn near Hazel.....	2,500
Louis Linder, builder, 946 Aurora, 1½-story frame dwelling, Sherburne near Oxford.....	2,500
Hamm Brewing Co., 1-story brick store 3d near Robert; Jno. O. Linder, builder.....	10,000
Nels Nelson, 1469 Hewitt av., 2-story frame garage, Hewitt near Pascal; S. H. and J. A. Rundquist builders. Chas. Gustafson, builder, 801 Magnolia, 1½-story frame and stone dwelling, Maryland between Arcade and Mendota.....	2,500
W. A. French & Co., 2-story brick and concrete alterations and repairs; Schuett & Forshee, builders..	3,000
Mary Dorr Steffman, 1½-story frame dwl., Goodrich near Finn; Home Building Co., builders.....	3,700
W. A. Tilden, 2-story stone and brick alterations and repairs, 61-65 E. 3d near Cedar; W. A. Tilden, builder..	4,000
G. W. Blood, Globe building, 2-story frame and stone dwelling, Linwood near Oxford; G. W. Blood, builder..	4,000
G. W. Blood, Globe building, frame and stone dwelling, Linwood near Oxford; G. W. Blood, builder.....	4,000
G. W. Blood, builder, Globe building, 2-story frame and stone dwelling, Osceola near St. Albans.....	5,000
E. M. and H. F. Ware, 1-story frame dwelling, Beacon near St. Albans; John Florin, builder.....	2,400
Dan'l N. Wagner, 2-story brick store and flat, Dale between Sherburne and Charles; Boyd Construction Co., builders.....	11,500
Jacob Zuercher, 290 St. Anthony av., 2-story frame 4-flat building, Laurel near St. Albans; Jacob Zuercher, builder.....	10,000
E. G. Walton Agency, builder, 1½-story frame dwelling Wakefield near Forest.....	3,300
Bentley & Hausler, architects, Pioneer building, have prepared plans and will let all work, bank building, W. 7th between Randolph and James, for West End State Bank, John Kalscheuer, president; cut stone, polychrome terra cotta, ornamental wrought iron, grills over doors and windows, metal doors and frames, bank fixtures, marble floor, brick wainscot, marble cap, marble check desks, ornamental plaster ceiling, steam heat, plumbing, special designed light fixtures, two vault doors in general specifications; enamelled brick, vault lining, steel vault partitions, safety boxes, beam ceiling, 40-special designed lights, 5 large lamps, r. c. floors, skylights, art class ceiling, crotch gum inter finish, inlaid with ebony, flush veneer doors, porcelain plumbing fixtures.	
Alban & Lockhart, architects, Chamber of Commerce building, are preparing plans for high and grade school Nora Springs, Iowa, \$35,000; brick, stone, 2-story, gymnasium, assembly hall, hollow tile, R. C. construction, 57x107, vacuum vapor heat, fan ventilation, plans ready April 14; contractors wishing to figure this will send references to architects and drawings will be mailed April 15, deposit \$10; plans sent by express, C. O. D.; on school Northwood, Iowa, plans mailed April 7, deposit \$10; plans sent by express, C. O. D.	
E. J. Donohue, architect, Gillilan block, has prepared plans for high school, Cathedral parish, St. Cloud, Minn.; Rev. Leo Gans; 146x120, 2-story, finished basement, gymnasium, parish hall with gallery, seat 700, 12-room, brick and terra cotta, cornice, granite trim, gravel roof, steam heat, slate black-board, steel trusses, girders, I-beams, showers; plans out; owner taking figures; mechanical equipment later, separate bids boiler house later.	
Bentley & Hausler, architects, Pioneer building, will have plans out in 30 days, for modern residence, Frank Siefert, Osceola, and Chatsworth; 52x40, brick and stucco, cut stone, slate roof, showers, 2-story and basement, brick and cut stone fireplaces, hot water heat, tile porch, tile bath, with	

marble wainscot, vacuum cleaner, sun-room, built-in refrigerator, garage, 2-machine.

\*W. F. Keefe, architect, Union block, has made plans for brick flat and store, St. Albans and Selby, for E. A. Mierke, druggist, 40x109, modern, plate glass, metal bars, hot water heat, Marquis, refrigeration, hand elevator, terrazzo floors, four apartments, four flats, gas stoves, ice boxes, composition roof; H. E. Rossman, 3241 S. Girard, Minneapolis, builder.

P. L. Linhoff, architect, Germania Life, is preparing plans for large all modern residence, Summit and Snelling, Hugo Hirschman, manager Rothchild Millinery Co., 2½-story, brick and stucco, 35x60, hot water heat, two fireplaces, brick and tile, vacuum cleaner, tile baths, tile breakfast room.

\*H. E. Erickson, architect, Union block, has furnished plans for a 2-story modern dwelling, brick, 26x30, modern, Simms st., for August Swenson, 927 Simms. Plans out in ten days; owner will let all work; also plans for remodeling dwelling to duplex, Mrs. M. E. Fallis, St. Peter st., hot water heat, interior changes, plumbing, day labor.

Plans for the St. Paul lodge I. O. O. F. building, W. 9th st., by Alban & Lockhart, architects, bids taken soon, call for 3-story, 50x134, mat faced brick, Bedford stone trim, canopy entrance, banquet room, seat 400; lodge rooms and lockers; G. D. Eggleton, secretary, 1139 Gibbs.

March permits showed a highly prosperous condition of building in the city; increase about 120 per cent over March, 1913, when the total permits were 208, value, \$1,063,296; permits last month, 252; valued at \$2,343,709; this is one of the best showings, St. Paul has ever made.

\*H. A. Sullwold, architect, has let contracts on auto club at White Bear; storage box, Steeger Refrigerating Co.; kitchen equipment, Waltersdorf Range Co.; decorating and light fixtures, Victor De Camp, 6th st. and Minnesota.

Bentley & Hausler, architects, Pioneer building, have plans under way for gymnasium and natatorium, Knights of Columbus, 5th and Smith, marble, terra cotta, tiling, cork, drying devices, turkish baths, medical mud baths, etc.

John G. Wheeler, architect, New York Life building, has plans out, taking figures, residence on Lincoln and Saratoga, for J. E. Darrie, modern, hot water, fireplace, 2-story, sleeping porch, sun-room, \$5,000, brick veneer.

Boyd Construction Co. has contract for brick and stucco and plaster veneer dwelling; Dale and Sherburne, for D. N. Wagner, 41x80; plans by Bentley & Hausler, architects, Pioneer building.

Thomas G. Holyoke, architect, Endicott building, has plans out, figures being taken for the large modern residence for Chas. Beckhoefer; fireplaces, steel cut stone, tile, talking.

Alban & Lockhart, architects, Chamber of Commerce, are at work on drawings for remodeling, Chamber of Commerce building, Robert st., widening; plans ready in three weeks.

Two stories will be added to Boardman hotel, 9th and Wabasha, 30 rooms with bath; cost \$30,000; F. E. Turgeon, proprietor, Mrs. Caroline E. Boardman, owner, Troy, N. Y.

Louis Linder, 946 Aurora has contract for modern dwelling, frame 31x44, E. F. Sianolt, 1772 Selby and is building for himself, modern dwelling Sherburne and Oxford, 24x26.

Axel Newman, 689 Simpson has contract for addition to store, 37x43, Carter and Commonwealth, Midway Investment Co., 2232 Carter.

Eureka Wood & Metal Specialty Co. will establish a plant at 602 Fairmont, larger plant later; Dr. E. E. Austin, 817 Andrus building, Minneapolis, president.

Bids on theater at Windom, Minn., will be opened 3:30 p. m., April 20, at First National Bank, Windom; P. J. Linhoff, architect, Germania Life building.

Plans for remodeling city hall interior, considered by committee, April 14; Alden & Harris, architects, Commerce building.

F. H. Ellerbe, architect, Endicott building, will have plans out in a week or ten days for theater Rochester, Minn.

A. H. & J. A. Rundquist, have contract for private garage, 2-story, frame, 26x28, Nels Nelson, 1469 Hewitt.

Jacob Zuercher, 290 St. Anthony, is building a 2-story frame four-flat, 32x70, Laurel and St. Albans, modern.

Illinois Steel Co. received the order for

2,000 tons rails for St. Paul & Southern electric line, at \$60,000.

Enlarging City hospital may be authorized on recommendation of grand jury.

Fire damaged ticket office and store \*\* 357 and 369 Robert; loss \$40,000.

Work will start soon on hotel E. 5th, for Hamm Brewing Co.

## HEAD OF THE LAKES

Office: 206 Manhattan Building. Telephone: Auto 3036. Mail or telephone news not later than Wednesday.

Berquist Bros., contractors, will start work in near future remodeling fronts and interiors of Victor Huot and E. M. Stone buildings, Superior st.; tile floors, marble wainscoting, fittings in mahogany; P. M. Olson, architect.

Permits issued last week for 34 buildings, large increase over a year ago; residence J. L. Lutes, \$12,500 on 6th between 26th and 27th; garage on same property to cost \$1,000; both brick and stone.

City will pave West Superior st., between 15th and 30th avs., by day labor; work in charge of Jas. Preston who will receive 6 per cent of pay roll; he will furnish picks and shovels.

Hunters Park Land Co. has started work on 2 dwellings in Kenilworth Park, \$6,500 each; P. M. Olson, architect; Gustafson & Olson awarded one contract, A. J. Johnson the other.

Kelley & Williams, preparing plans for 2 rural schools, Floodwood district, \$5,000 each; have complete plans for Pine City, Minn. high school and will let bids April 11.

Contract to Berquist Bros., Moose Lake, by Wangenstein & Giliuson, architects, for a frame business building at Willow River, Minn., for Duluth Brewing Co.

Bids received by C. S. Palmer, clerk, 10 a. m., April 6, for 500,000 feet white or Norway pine or tamarack or Washington fir for use during 1914; check for 10 per cent.

P. M. Olson, architect, has awarded contract for Percy Fuller home, Kenilworth park to Appleby Bros., \$5,000.

A site purchased by Western Curling club and club expects to build within year; Frank H. Wade, president.

W. H. Patterson is to build a home on Greysolon road, \$20,000; colonial, brick; W. A. Hunt, architect.

Plans being discussed by West Duluth lodge 1478 Loyal Order Moose for erection of a home.

Clarkson Coal & Dock Co. will extend its dock 400 feet, and further additions made in future.

An ambitious program of park improvements has been outlined by Mayor W. I. Prince.

John Markell is building a \$10,000 residence in Congdon park, 31st av. E. and 1st st.

School board will build 1st unit of a school house in New Duluth.

## SUPERIOR.

The Heyl-Patterson Co. has a contract for installing dock machinery equipment to cost over \$100,000; machinery is part of extensive improvements to be added to the Reiss dock. The Heyl-Patterson Co. will construct a large unloading bridge and a transformer house. The Reiss Co. will double its capacity at the St. Louis bay plant. Work has already been started on a 600-foot addition.

The Twin Ports House Building Co. has organized to build homes on easy terms; J. E. Vinum and P. E. Johnson are at the head of the new concern. Mr. Vinum will have charge of the construction work and Mr. Johnson will attend to the architectural work. The company has offices in the Truax block.

Erection of the Y. M. C. A. building will be begun at once; contract for windows and doors, has been considered, and bids of contractors for all portions of the building will be called for; foundation about completed.

Superior Home Building Co. has begun work on four residences in Bayview district, each to cost \$3,500 and to be sold, not rented.

Permits issued for residences to John G. Cowie, 1524 John av., \$2,800; Martin Berg, 6,220 Ogden av., \$1,850.



# CONTRACTORS BONDS AND EMPLOYERS LIABILITY INSURANCE

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Successor to Hillsboro Brick & Tile Co  
**HILLSBORO, N. D.**

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., March 26, 1914. Sealed proposals will be opened in this office at 3 p. m., May 5, 1914, for the construction complete (including mechanical equipment, interior lighting fixtures, and approaches) of the United States postoffice at Wahpeton, N. Dak. The building is one-story and basement, with a ground area of approximately 3,230 square feet; brick facing; composition roof; first floor of fireproof construction. Drawings and specifications may be obtained from the custodian of site at Wahpeton, N. Dak., or at this office, in the discretion of the Supervising Architect. O. WENDEROTH, supervising architect.

### SALE OF STATE RURAL HIGHWAY CONSTRUCTION JOB.

Owatonna, Minn.

Notice is hereby given that on the 25th day of April, 1914, at eleven o'clock A. M., at the office of the County Auditor in the Court House in the City of Owatonna, Steele County, Minnesota, I will sell the jobs of constructing State Rural Highway No. 44, established by the Board of County Commissioners of Steele County, Minnesota by their order bearing date the 12th day of March, 1914, viz: For the work as one job, and also for one or more sections of 100 feet each, and also for one or more of the construction jobs, each of said sections to be known and numbered by stakes as shown by the report of the Engineer in said matter, to the lowest responsible bidder or bidders, and that bids are invited for said work; said work to be completed within the time required, and in the manner specified in said Engineer's report. No bid will be entertained which exceeds more than thirty per cent over and above the estimate cost of the construction, in any case, as stated in the said order; and the successful bidder will be required to give a satisfactory bond, to

## PROPOSAL ADVERTISING FOR BIDS.

be approved by the Auditor of said County, for the faithful performance and fulfillment of his contract, and to pay all damages that may accrue by reason of his failure to complete the job within the time required in the contract. The said order and estimates and profile are on file, and may be seen at my office.

The approximate amount of work to be done in the construction of said State Rural Highway is as follows: Clearing and grubbing, 861.8 square rods; grading, 20,021.5 cubic yards; turnpiking, 16,450 lineal feet; borrowing, 4,787 cubic yards; graveling, 7,010 cubic yards; culverts, 21 concrete box; placing 14 corrugated; bridge known as State Bridge No. 1031; tile, 700 feet 10-inch tile.

The estimated total cost of the work is \$17,048.17.

All bids must be accompanied by a certified check, payable to the Auditor of said County, for not less than ten per cent of the amount of each bid.

The right to reject any and all bids is hereby reserved.

Dated March 21, 1914.

(Seal.)

**M. J. PARCHER,**

County Auditor, Steele County,

State of Minnesota.

### NOTICE FOR BIDS.

For the Construction of Judicial Ditch No. 21, Beltrami and Marshall Counties.

Notice is hereby given, that the undersigned Auditors of Beltrami and Marshall Counties, Minnesota, will on Tuesday, April 28th, 1914, at 10.00 o'clock A. M., at the office of the Auditor of Beltrami County, in the court house in the City of Bemidji, Minnesota, receive sealed bids for the construction of Judicial Ditch No. 21, located in Townships 157 and 158, Ranges 36 to 42 inclusive, Beltrami and Marshall Counties, according to the plans and specifications of the Engineer now on file in the office of the Clerk of Court of Beltrami County. Said Ditch as surveyed by the engineer is about 220 miles long, and the work is estimated as follows:

2,297,171 cubic yards of excavation at 11c .....	\$252,688.81
134 miles of clearing right-of-way .....	14,942.52
193.75 miles of road leveling at \$125.00 .....	24,218.75
33 steel bridges from 10 to 45 feet long .....	20,000.00

Total ..... \$311,850.08  
Width of base, about 175 miles of four feet, the balance from six to thirty feet.

Bids for the bridges will be received separate from the balance of the construction. Bids for the rest of the work will be received as one job, or for one or more sections of the work. Each bid must be accompanied by a certified check on a National Bank or Trust Company for not less than 10 per cent of the total amount of the bid, which shall

be forfeited if the successful bidder fails to enter into a contract, and execute a bond as provided by law. The successful bidder will be required to furnish a good and sufficient bond in the amount of the contract, conditional upon the faithful performance of said contract. No bid will be entertained that exceeds by 30 per cent the estimate of the engineer.

Bidders are requested to specify the time needed to complete the work.

The right to reject any or all bids is reserved.

The date for receiving said bids may be adjourned from time to time, until the work shall have all been taken.

**G. W. WALKER,**

Engineer.

**J. L. GEORGE,**

Auditor, Beltrami County.

**A. G. LUNDGREN,**

Auditor, Marshall County.

### WATER WORKS SYSTEM.

Sanborn, Minn.

The undersigned hereby gives notice that sealed proposals for the erection of Water Works System, including all labor and material, will be received by Village Council of Sanborn, Minn., until the hour of 8 p. m., on the 15th day of April, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by W. D. Lovell of Minneapolis, Minn., which may be seen at the office of W. D. Lovell any time and may also be seen on application, Village recorder's office.

Plans and specifications will be forwarded to prospective bidders upon a deposit of \$5.00 with the undersigned and upon return of same in good condition \$3.00 will be refunded.

A certified check for \$1,000, payable to the order of D. G. Klein, village recorder, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract.

The right is reserved to reject any or all bids.

(Signed)

**D. G. KLEIN,**

Village Recorder,

Sanborn, Minn.

Place, Sanborn, Minn.

Date, March 30, 1914.

### BRICK BUILDING.

Fonda, Iowa.

Sealed proposals will be received up to one o'clock, P. M., Saturday, April 11th, at the Royal Hotel at Fonda, Iowa, for a 2-story, brick building, 50x80 feet; plans and specifications can be had upon request and a deposit of Seven dollars, for two days.

**MRS. ALBERT SMITH,**

Fonda, Iowa.

(Continued on page 17.)



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ST. PAUL, MINN.



## PROPOSAL ADVERTISING FOR BIDS

**TREASURY DEPARTMENT,** Supervising Architect's Office, Washington, D. C., March 31, 1914.—Special proposals will be opened in this office at 3 p. m., May 13, 1914, for the construction complete (including mechanical equipment, lighting fixtures and approaches) of the United States postoffice at Excelsior Springs, Mo. One story and basement building; ground area, 3,800 square feet; first floor fireproof; stone and brick facing with ornamental terra-cotta cornice, etc.; composition roof. Drawings and specifications may be obtained from the custodian of site at Excelsior Springs, Mo., or at this office. O. WENDEROTH, Supervising Architect.

#### NOTICE TO ROAD CONTRACTORS.

Mora, Kanabec County, Minn.

Sealed bids will be received at the County Auditor's Office of Kanabec County, at Mora, Minnesota, until 10 o'clock, A. M., April 24, 1914, for construction of County Jobs numbered from one to nine inclusive, being of a total aggregate length of about eleven miles consisting of the following: 21.5 acres clearing; 22.7 acres grubbing; 22,120 cubic yards grading; 16,800 lineal feet turnpiking; 10,348 cubic yards ditching; 1,055 cubic yards graveling.

Also, for the construction of the following round, concrete culverts: Twelve, 12 inches by 24 feet; Two, 12 inches by 26 feet; One 15 inches by 24 feet; One 18 inches by 24 feet; Two, 24 inches by 24 feet; and One, 36 inches by 42 inches by 24 feet plain concrete box culvert.

Also the following reinforced concrete culverts: Four, 3 feet by 3 feet by 24 feet; One, 4 feet by 6 feet by 24 feet; One 5 feet by 8 feet by 24 feet.

The total estimated cost is about \$12,450.00. Bids may be submitted for any one, or more, or all of the jobs mentioned, with or without culverts.

Plans and specifications may be seen at above named Office or at the Office of the State Highway Commission at St. Paul.

Each proposal must be accompanied by cash or certified check for not less than 5 per cent of the amount of the bid, payable to the County Treasurer of said County.

All bids must be in accordance with instructions to bidders and upon the blank forms furnished by A. H. Merrill, District Engineer, at Mora, Minnesota.

The County Board reserves the right to reject any or all bids.

By Order of the County Board of Kanabec County, Minnesota.

Dated at Mora, Minn., March 31, 1914.  
(Seal.) ANTON PETERSON,  
County Auditor.

#### BANK BUILDING.

Comfrey, Minn.

The undersigned hereby gives notice that proposals for the erection of two-story, brick building, including all labor and material, will be received by Farmers' State Bank of Comfrey, Comfrey, Minn., until the hour of 1:30 p. m., on the 15th day of April, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by H. C. Gerlach, Architect, of Mankato, Minn., which may be seen at the office of Farmers' State Bank, Comfrey, on and after April 1, 1914, and may also be seen on application to Architect's office and Builders' Exchange, Minneapolis, Minn.

A certified check for 10 per cent, payable to the order of Farmers' State Bank, Comfrey, Minn., must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond for the faithful performance of the contract.

The right is reserved to reject any or all bids.

(Signed) FARMERS' STATE BANK,  
Comfrey, Minn.,  
April 1, 1914.

#### BOND SALE.

The Board of Education, Independent School District No. 60, New Barnesville, Clay County, Minnesota, will meet at Citizens' State Bank, in Barnesville, Minnesota on the 25th day of April, 1914, at 7:30 P. M., for the purpose of considering bids for \$55,000.00 School Bonds of said district, to bear date September 1, 1914, bonds to be in denomination of \$1,000.00 each, to mature in 15 years without option of prior payment, rate of interest four and one-half per centum per annum, payable semi-annually. Bids will be considered for the whole amount or part of said bond issue. The Board reserves the right to reject any or all bids. Certified check for \$500.00 required with each bid. Dated at Barnesville, Minn., April 2, 1914.

E. AAMODT,  
Clerk.

#### BIDS FOR THE CONSTRUCTION OF A FOUR STORY CHEMISTRY BUILDING.

State University, Vermillion, South Dakota.

Notice is hereby given, that sealed bids will be received by the Regents of Education of South Dakota, care of J. H. Julian, Secretary of the State University, Vermillion, South Dakota, up to Nine o'clock, A. M., on April 22, 1914, for the construction of a Chemistry Building for the University of

South Dakota, according to the plans and specifications prepared by Joseph Echwarz, Architect, of Sioux Falls, South Dakota, and approved by the State Engineer.

Plans may be seen at the Builders' Exchange, St. Paul, Minn., at the office of the Architect at Sioux Falls, S. D., at the office of J. H. Julian, Secretary of the University, at Vermillion, South Dakota and at the Builders' Exchange, Omaha, Neb. Copies of plans may be secured of the Architect at Sioux Falls, South Dakota.

A certified check, payable to the Regents of Education, in a sum equal to Two per cent of the amount bid not less than \$50, must accompany each bid.

The Regents of Education reserve the right to reject any and all bids.

Dated at Elk Point, S. D., this 18th day of March, 1914.

The Regents of Education,  
By A. E. HITCHCOCK, president.

Attest.  
FRED W. FORD, Secretary.

#### SCHOOL BONDS FOR SALE.

Baudette, Minn.

Sealed bids will be received up to four o'clock P. M., Thursday, April 30, 1914, by INDEPENDENT SCHOOL DISTRICT NO. 111, Beltrami County, Minnesota, for bonds of the said District, as follows: Issue \$35,000.00—denominations \$500.00 or multiples thereof—interest 6 per cent, payable semi-annually, maturing in fifteen years.

Proceeds to be used in building and equipping school building in Baudette, Minn. Bids must be accompanied by certified check for 5 per cent of bid. Board reserves right to reject any and all bids.

Address all communications, E. C. Middleton, Deputy Clerk, Baudette, Minn.

#### PROPOSALS FOR BIDS.

Decorating Court House, Pipestone, Minn.

Sealed bids will be received at the County Auditor's office of Pipestone County, at Pipestone, Minn., until 3 p. m., Tuesday April 28, 1914, for decorating the Pipestone County Court House, according to plans on file at the above office, at the office of the architect, Joseph D. Livermore, 324 Paulton Block, Sioux Falls, South Dakota, and at the office of the Improvement Bulletin, 912 Lumber Exchange, Minneapolis, Minn.

Each proposal must be accompanied by a certified check for \$150.00 as evidence of good faith, said check to be made payable to the Treasurer of Pipestone County.

The Board of County Commissioners reserve the right to reject any and all bids.

TAD BAILEY,  
County Auditor.

(Continued on Page 18.)

## WINNIPEG, MAN.

Items marked with asterisk not in daily sheets.

The following permits were issued: internal alterations will be done to Victoria hospital, to cost \$5,000; G. W. Vanderhost, dwelling and warehouse, north Alkens and College av., to cost \$3,500; Bergart & Gerdivin, dwelling, Burrows, cost \$3,000; A. Peters, dwelling, Stalner, to cost \$1,800; the J. W. Wright Co., received permit for \$2,000 for foundation and alterations to dwelling at Wellington av.; M. Whatley, store, Ellice and Sherburn, to cost \$2,000; W. Knowles, blacksmith shop, cost \$1,800; on Burnell st., J. Adams, addition to dwelling of 740 Home st., \$1,700; L. Schultz, dwelling on Seymour st., \$1,500; J. Brown, dwelling, Williams av., \$1,000; L. H. Shepley, number of dwellings, north side of Bartlett to cost \$4,500; A. Ackman, 4 dwellings, Martin st., Harbison and Talbot st., \$6,800; J. Manshin, dwelling, on Alfred av., \$2,000; F. Kistjenson, dwelling, on Ingelsoll av., \$2,500; the Buffalo Construction Co. will erect 3 dwellings, on Goulding av., H. Williams, dwelling to cost \$2,500; Meadow av., H. Palmer, is erecting a \$2,500 dwelling on south side of Lincoln av.; M. Rosenblatt, brick stable on 539 Alfred av., \$2,500; J. Jackson, addition to dwelling, on Toronto st., \$1,000; and J. W. McKinley, repairs to dwelling, on Windsor st., \$1,000.

Engineers for the Greater Winnipeg water district are working on plans for erection of 900-foot tunnel that will be constructed under Red river and through which the water from Shoal lake will be brought into the city reservoirs at MacPhillips and Logan av.

Tenders are wanted to March 31, by R. H. Smith, secretary-treasurer, Winnipeg public school board, for erection of a stone and brick school on Selkirk av. and Pritchard av. and Arlington st., site to be known as King Edward school No. 2.

Tenders are wanted to April 4, by Frank Ness, clerk, rural Municipality of Assiniboia, Kirkfield Park, P. O., Man., for supply of water pipe, hydrants and valves.

A hall will be erected as memorial to late Alexander Black and will be called Alexander Black Memorial Hall, to be erected on Aberdeen av., near Salter st.

Block owned by Fred W. Scott and occupied by different firms was destroyed by fire and will be rebuilt at once with reinforced walls.

Tenders wanted to April 7, by E. D. Tuttle, architect, 709 McArthur building, Winnipeg, for erection of school at Benito, Man.

Extensive alterations will be made to Dominion Express Co.'s building.

The traffic bridge on Main st. will be rebuilt; plans being prepared.

A sewer will be constructed on Erin st. will cost \$7,396.

## FARGO, N. D.

Plans at Builders' & Traders' Exchange, remodeling bank at Breckenridge, Minn., First National Bank, owners; Haxby & Gillespie, of Fargo are the architects; no date set for the letting; store building for Campbell, Minn., brick construction, owners, Campbell Mercantile Co., of same point; size 38x95, 1-story; Haxby & Gillespie, architects,

no date set; residence for Hugo Stern of Fargo, 2-story, frame, 28x28, cost about \$4,500; Haxby & Gillespie, architects; no date set; frame school, 1-story, New Rockford, N. D., size 28x42, C. F. Culp, clerk; Haxby & Gillespie, architects, no date set; brick bank building, Steele, N. D., 1-story, 25x63, owners, First National Bank, Steele, N. D., Hancock Bros., architects; will be let April 10.

Permits issued, H. E. Nichols, dwelling, Lincoln av., \$2,800; Cameron, Wood & Co., dwelling, Rosedale av., \$3,000; R. S. Sproule, dwelling, Spence st., \$2,000; A. Manson, dwelling, Wolsey av., \$5,000; Williton & Packer, dwelling, Beresford av., \$3,500; A. J. Anderson, dwelling, Montrose st., \$4,000; N. A. Development Co., two dwellings, \$6,000; C. L. R. Weldon, dwelling, Rathger av., \$4,000.

The state board of control and architect Sam Crabbe, made a tour of inspection of the institute for the deaf. They report the institute in good condition, but in need of further equipment and additional room. Plans will be made for the improvements as soon as possible.

Bowers Bros. of Fargo, were awarded the contract for the erection of a 2-story store building here. Their bid was \$6,318. The Fargo Plumbing & Heating Co. received the contract for the plumbing, heating and wiring at \$1,482; owner S. Levin, Fargo.

Permits issued: M. Harris, five dwellings, Redwood av., \$11,000; D. Weisner, 2 dwellings, Banning st., \$1,500 each; S. Knowbel, dwelling, Pritchard av., \$3,500; R. J. Henderson, dwelling, Aberdeen av., \$2,500; C. Cook, dwelling, Bannatyne av., \$1,000.

W. A. Black of the Ogilvie Flour Milling Co., Winnipeg, states that his company will erect 15 new elevators in province of Alberta this year.



Employers' Liability Insurance  
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MINNEAPOLIS

### PROPOSAL ADVERTISING FOR BIDS

#### NOTICE TO BIDDERS.

State Rural Highway, St. Louis County,  
Minnesota.

Notice is hereby given that sealed proposals will be received at the office of the County Auditor of St. Louis County, Minnesota, until 2 o'clock in the afternoon of Saturday, April 11, 1914, for the construction of State Rural Highway Number Four (4), established by an order of the County Board of the County of St. Louis, Minnesota, made and filed on the 27th day of September, 1913. The contract will be let to the lowest responsible bidder or bidders.

That the approximate amount of the work of construction of said State Rural Highway Number Four (4), is as follows: The construction of approximately thirty-two (32) miles of highway, of which about one-half ( $\frac{1}{2}$ ) is through swampy land, and one-half ( $\frac{1}{2}$ ) on upland. That the construction of said

highway involves approximately thirty-one and eight-tenths (31.8) miles of clearing and grubbing of right-of-way; ninety-four thousand (94,000) cubic yards of ditching; thirty-eight thousand (38,000) cubic yards of turnpiking; eighteen thousand (18,000) cubic yards of earth to be hauled onto and placed on said road where the same runs through swamp; thirteen thousand five hundred, (13,500) cubic yards of excavation, cut and fill work; thirty-seven thousand (37,000) cubic yards of graveling on said road, and seventy-four (74) corrugated galvanized metal culverts varying from fifteen (15) inches to forty-eight (48) inches in diameter. That the estimated cost of said work, exclusive of engineering expenses, is approximately One Hundred Three Thousand Dollars (\$103,000.00). That the said work is located between the intersection of the Culver Road with the Miller Trunk Road, as its eastern terminus, and the westerly limits of St. Louis County as its western terminus.

### PROPOSALS

That contracts for building the bridges on said road have already been let.

Proposals will be received on one or more sections or schedules of said work, and on one or more of such construction jobs, or for the entire work as one job. Each proposal must be accompanied by certified check made payable to the County Auditor of St. Louis County, for not less than ten per cent (10%) of the amount of any bid, as a guarantee that the bidder will if successful, promptly execute said contract and furnish a satisfactory bond for the faithful performance of the work as required by the drawings and specifications for said work. Bidders submitting bids on different sections or portions of said work will not be required to furnish separate check with each proposal, but one check for ten per cent (10%) of the aggregate amount of bids submitted will be sufficient.

Only experienced and responsible bidders will be considered in awarding contracts, and evidence of such experience and responsibility will be required. The County Auditor reserves the right to reject any and all bids.

Bids will be received for the construction of said road and the performance of said work on a yardage basis or by the station; bids for clearing and grubbing will be received on a lump sum per section basis only.

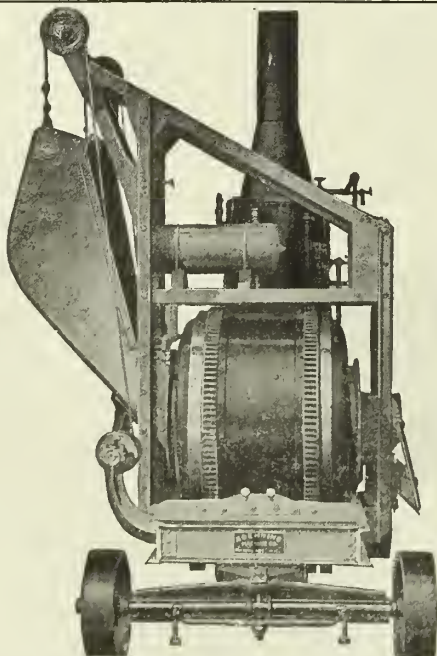
Proposals must be marked "Proposal for Constructing State Rural Highway Number Four in St. Louis County, Minnesota," and addressed to "O. Halden, County Auditor, Duluth, Minn."

All proposals must be based upon the specifications for said work which are a part of the Engineer's Report in said proceedings and on file in the office of the County Auditor, at the City of Duluth.

For further particulars, address the undersigned, County Auditor, or E. K. Coe, Engineer in Charge, Court House, Duluth, Minnesota.

O. HALDEN, County Auditor.  
By J. O. WALKER, Deputy.  
(Seal, County Auditor of St. Louis County, Minnesota.)

(Continued on Page 20.)



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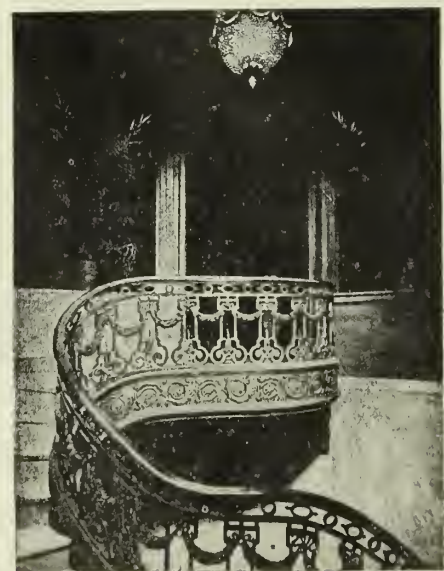
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**FLOUR CITY ORNAMENTAL  
IRON WORKS** MINNEAPOLIS, MINN.



The date for the letting of the Bemidji hotel building has been postponed from Mar. 27, to April 1.

Bids will be received until early part of April for the erection of a garage for Wm. Ball of Fargo.

## OMAHA, NEB.

### Building Permits.

Mary Lynch, 811 S. 22d, brick building	5,000
Nat Meiseter, 2811 S. 33d, frame dwelling	\$3,000
John Belitz, 2924 Arbor, frame dwelling	2,500
Silas P. Wolf, 1237-47 N. 17th; brick tenement	6,000
George C. Hobbie, 302-4-6-8 N. 16th, brick stores	6,000
C. E. Lambert, 632 N. 30th; frame dwelling	2,250
Sarah A. Morehouse, NW, corner 38th av. and Harney st., brick apartment	25,000
Otto Eickhoust, 2401-11 Ames av., brick store	10,000
Fred Bonness, 1504 S. 24th; brick store	5,000
Harry Wolf, 2636-38 Binny; frame dwelling	2,000
C. C. Jensen, 3005 S. 21st st., brick dwelling	2,000
Phippen Real Estate Co., 3122 Marcy, frame dwelling, each	2,500
Mrs. L. Woodruff, 3711-13 N. 30th; frame dwelling	2,500
P. J. Crendon Improvement Co., 2304 Curtis av., frame dwelling	\$2,500
Nat Meiser, 2811 S. 33d; frame dwelling	3,000
Wm. Gernnett, 2116 S. 8th; frame dwelling	2,000

## MILWAUKEE, WIS.

Office: Hathaway Building. Telephone: Main 1827. Mail news to Minneapolis office not later than Wednesday.

Architect Robert Schmitz, Berlin Arcade building, is ready for figures on bungalow for Mrs. Anna Mahan on 13th av., near National; brick veneer and stucco, 2-story and basement, 29x57, hot water heat, rex tile roof, art and plate glass, probably vacuum cleaning; also for bids on store and two-family flat building, 3d and Lee sts.; brick, 25x70, hot water heat, composition flat roof, incinerator; has awarded on four-family flat for Thomas Roberts: Excavating, Ed. Radke; carpenter, David Jones; mason, Dickenson; concrete and cement, Clos Construction Co.; plaster, Albert Wartchow; sheet metal, L. Mertens; plumbing, J. L. Hahn.

Architects Siebert & Bruecker, 557 12th st., are ready for bids on remodeling a residence into a 4-flat on 8th st., near Walnut st., for H. Siegel, frame, brick foundation, 22x50, furnace heat, hardwood floors, oak and cypress finish; working on plans for a store, Fond du Lac av., and 35th st., 1-story and basement, 40x52, hot water heat, awarded on duplex for George Neubauer, Buffum st. near Auer; frame, brick foundation, 24x48; carpenter, Henry Ranscht; mason, Henry Haht; plaster, H. J. Krauss.

Architect H. W. Buemming, 521 Jackson st., is preparing plans for a bank, fireproof steel and hollow tile, brick, stone facing, 50x90, for Horicon State Bank, Horicon, Wis., is closing bids for residence, Lake Drive for Lake Park Co., tile, hot water heating, art and plate glass; awarded contracts for residence, 26th st., near Wells st., for Mr. Mandel, plaster, Aug. Bartelt; sheet metal, Schumann & Roden; iron work, C. Hennecke Co.; heating, Marble-Spencer.

Architects Leenhouts & Guthrie, 424 Jefferson st., awarded contracts for church for Bethel Evangelical congregation at 38th and North. Mason, Schmidt & Fehst; sheet metal, John Graf & Sons; plumbing, Adolph Martins; on addition to the barn of Gridley Dairy Co., at National and 7th avs.; Carpenter, Wierdsma & Laatsch; mason, Dahlman Construction Co.; sheet metal, Biersach & Niedermeyer Co.

Architect Chas. H. Tharinger, 2224 State st., is ready for bids for constructing a duplex, 35th and State sts., for O. E. Oppen, frame, brick foundation, 26x54, 2-story and basement, tile vestibule and bath rooms, hot water heat, composition roofing; has awarded on duplex for E. T. Saveland, 23d av. near National; heat, to Pfeifer.

Architect John Menge, Jr., Matthews building, is preparing plans for remodeling and building addition to cottage on Bremen st.; has awarded on duplex for Sam Mieske on 19th near Hadley; carpenter, Aug. Butzke; plaster, Julius Gauger; heating, Wenzel and Henoch; electrical, Wm. Platz; painting, J. Klein.

Architect Richard E. Oberst, 353 National av., is preparing plans for a bakery; brick veneer, 2-story and basement, 27x54, at Bufum and Burleigh, store, first floor, two flats second; also for a six-family flat, brick, 3-story and basement, 52x60, 26th and National, tile bath, vapor heat, marble entrance.

Architects Schnetzky & Son, 1320 Cedar st., are closing bids for office and warehouse for Standard Paper Co., Milwaukee, near Buffalo; reinforced concrete and brick, 5-story and basement, 150x120, steam heat, fan ventilating, composition roof, electric elevators, composition mosaic marble and tile.

Architects Leiser & Holst, Germania building, are ready for bids on a duplex for A. C. Swekle, 23d av. near Scott; frame, brick foundation, 26x50, hot water heat; have awarded on duplex for Oscar Stoltz on Cedar, carpenter to Sprague Engineering Co.; mason to E. Klemens.

Architects Kirchoff & Rose, Majestic building, awarded contracts on bungalow for Mrs. Tehnee, Lake Drive. Plaster, Wm. Gregory; tile, W. F. Durner Co.; sheet metal, Schuman & Roden; plumbing, J. Wittig Co.; electrical, Koshin Electric Co.; painting and glass, Chas. Busse.

Arthur Vogel got contracts for 500 feet of breakwater for new Linwood av. intake tunnel at \$19.75 per lineal foot; and 500 feet protection wall for light house, both off Lake Park; bids on 1,300 feet protection wall at Bay View rejected.

Architect Stanley F. Kadow, 988 Kinnick-inn av., awarded contracts on store and flat for H. Jensen; heating, R. C. Sauer; electrical, Co-operative Electric Co.; on duplex for Paul Oyda: Hennecke Iron Works Co., iron work.

Architect G. A. Dick, 811 State st., is closing bids on brick veneer, 27x56, duplex for Mrs. M. Hoffman on 49th st., between Pabst and Meinecke, reinforced concrete foundation, tile floors, hot water heat, shingle roof.

Architects Christiansen & Kemnitz, 87 Howell av., completed plans, ready for bidding, on remodeling and building addition to a store and flat for Louis Startz, Kinnick-inn and Smith; steam heat, composition roof, plate glass.

Architect C. F. Ringer, Hathaway building, awarded contracts on remodeling a factory building. Carpenter, Oscar Fromm; plaster, Wm. Gregory; iron work, Hennecke Co.; refrigeration, Arthur Koenig Co.

Architects Van Ryn & De Gelleke, Caswell block, close bids this week for bank building, 2-story and basement, 26x61, brick, hot water heat for Whitewater State Bank, Whitewater, Wis.

Architect Clare C. Hosmer, Wells building, is taking figures for residence and garage for F. J. Olson, Woodlawn court, Story Hill; brick veneer and stucco, 31x40, hot water heat.

Architect Chas. J. Keller, Germania building, has completed plans for N. Goergen, Racine, Wis., frame residence, 30x26, concrete foundation, furnace heat; owner will take bids.

The village clerk of East Milwaukee will take bids till April 6 for laying 407 lineal feet of 12-inch sewer in Farwell av. Theodore B. Olsen, clerk. Check for \$100.

Architects Kamschulte & Webster, 403 Grand av., will be ready for bids in few days for duplex, Bartlett av.; frame, 26x50, furnace heat.

Architects Robert Messmer & Bro., Majestic building, are closing bids on garage, 3126 Wells st., for C. B. Kling; brick and tile, 26x47.

Architect George Ehlers, 721 3d st., is taking figures for addition and remodeling duplex, 949 9th st., for J. Killian; furnace heat.

Architect F. W. Andree, Cawker building, has awarded on Kershaw residence, Story Hill, plumbing to Schumann & Luebke.

Architect H. J. Rotler, Goldsmith building, is closing bids on electric lighting, duplex, for Mrs. J. E. Owen, 346 Prospect av.

Architects Herbst & Hufschmidt, Caswell block, close bids April 10, for store, North av.

## Street and Road Work

Notes arranged alphabetically by states.

**Ida., Pocatello**—Election April 15 on \$100,000 bonds to pave and grade streets and build bridges; Wm. H. Jackson, Jr., city clerk.

**Ida., Roxburg**—Election April 15, on bonding the county in the sum of \$50,000 for good roads; address county clerk at Roxburg.

**Iowa, Cedar Rapids**—Lowest bids for paving fifth and various other streets were by the Ford Paving Co., with brick, at \$1.78 per square yard, and F. K. Hahn and A. Jaicks with concrete at \$1.10.

**Iowa, Cedar Rapids**—Hearing soon on paving in Grand av.; L. J. Storey, city clerk.

**Iowa, Des Moines**—Hearing April 15, on paving 2d st., W. 37th st.; Horace Susong, city clerk.

**Iowa, Fort Dodge**—Fifty miles of county roads have been surveyed by engineers Smith and Shook; grading to begin soon; cost about \$300 per mile.

**Iowa, Fort Dodge**—Hearing April 15, for paving and curbing on various streets, either sheet asphalt, cement concrete, or asphaltic concrete; W. L. Tang, city clerk.

**Iowa, Iowa City**—Board of supervisors voted to spend \$40,000 for street and bridge improvements.

**Kan., McPherson**—Bidders on 31 blocks of asphalt concrete paving were: Standard Roofing & Paving Co., Parsons, Kan.; Chas. L. Bessler, Winfield, Kan.; J. R. Ramsey, Lawrence, Kan.; Chas. H. Shaw, Lawton, Okla.; Watts & Ammerman of Salina and Lawrence, Kan.

**Minn., Duluth**—Cost of paving 1st st. in Congdon park with asphalt is estimated by John Wilson, city engineer, at \$30,549.

**Mont., Great Falls**—Bidders for culvert material were as follows: Northern Hardware Co., on losa metal; Stimpert Implement Co., on common steel, Apollo Bloom and acid proof; Wheeling Corrugated Co., on Open Hearth, Crescent, acidproof and Coroco; Ft. Dodge Culvert Co., through the Montana Implement Co., Keystone metal, Ft. Dodge iron and Vismara; Northfield Iron Co., on Open Hearth and Superior iron; Minneapolis Steel & Machinery Co., Apollo Bloom, Keystone and pure iron; Montana Culvert Co., on American Ingot iron; Gust Minter for the Klauer Manufacturing Co., on Copper Bearing or pure Ingot; Berger Manufacturing Co., on Toncan or Nacaro and Open Hearth; Russell Grader Co., on Vismara, Acidproof and Open hearth; Clinton Bridge Works on painted boiler plate; Lyle Carriage Co. on American ingot iron.

### BIDS WANTED.

**Ida., Nez Perce**—Bids received by Clyde E. Clovis, clerk of the board, until April 14, for about 5 miles of wagon road; check for \$300.

**Iowa, Carroll**—Bids received by Geo. A. Poepppe, county auditor, until about April 20, for about 4 miles of grading; \$20,000 available for gradings; Henry M. Hansen, engineer.

**Iowa, Clarinda**—Bids received by T. A. Wilson, city clerk, until 7:30 p. m., April 8, for grading, curbing and paving Lincoln av. with Portland cement, being approximately 9,866 lineal feet curbing and 12,429 square yards paving; check for 10 per cent; also, at same time, for grading, curbing and paving 12th st., with Portland cement, requiring 1,970 lineal feet curbing and 2,830 square yards paving; check for 10 per cent.

**Iowa, Grundy Center**—Bids received by G. L. Eggleston, auditor Grundy county, 10 a. m., April 7, for 1,600 feet galvanized culverts in 12, 15 and 18-inch.

**Iowa, Le Mars**—Bids received by Edwin S. Townsend, city clerk, until 10 a. m., April 15, for concrete paving on Main st.; check for 5 per cent.

**Iowa, Leon**—Bids received by S. G. Mitchell, city clerk, until 2 p. m., April 14, for paving on Main and Idaho sts., either brick block, asphaltic concrete or bitulithic, with curb and gutter, requiring 5,157 square yards paving, 2,750 lineal feet curb and gutter, 650 feet curb, 72 lineal feet header curb, 6 storm inlets, 50 feet 18-inch storm sewer and 20 feet 12-inch storm sewer for Main st., and 650 square yards paving and 475 lineal feet curb and gutter for Idaho st.; check for \$1,000.

**Iowa, Missouri Valley**—Bids received by S. R. Williams, city clerk, until 3 p. m., April 14, for artificial stone curb and gutter; check for 5 per cent.



LINOFELT should be your first thought this spring in building that new home—or remodeling the old one. We know you want COMFORT above all things. Get it. Use Linofelt. Actual tests show it to be 38 times more efficient than building paper. The difference in initial cost will be made up the second winter in fuel saved; and more, you are sure of what you are after—COMFORT. We make every form of insulation preventing cold or heat from going through walls, floors or roofs. Write for illustrated booklets.

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## PROPOSAL ADVERTISING FOR BIDS

### PRIVATE PAVING CONTRACT, CALL FOR BIDS, TOWNSITE OF MINNESOTA STEEL CO.

Duluth, Minn.

Scaled proposals will be received up to 12 o'clock noon on Friday, April 24th, at the office of Morell & Nichols, Landscape Architects and Engineers, 902 Palace Building, Minneapolis, Minn., for work to be done at the Townsite of the Minnesota Steel Co., in the City of Duluth.

The work comprises the paving of streets and alleys and the construction of curbs and sidewalks.

The quantities are approximately.

60,000 square yards paving ;

17,000 lineal feet curbs;

130,000 square feet sidewalks;

80,000 square feet house walks;

Together with underdrains, cross walks and other incidental work.

Comparative bids will be received on Sheet Asphalt, Bituminous Concrete, Bituminous Macadam and Concrete pavement.

Plans and specifications will be on file after Monday, April 6, at the office of the Builders' Exchanges in Minneapolis and Duluth. They may also be obtained at the office of the Engineers upon a deposit of \$25. to insure their return.

Bids will be received only on the whole of the work called for under each plan. A certified check for \$5,000.00 made payable to the Minnesota Steel Co. shall accompany all

bids. The owners reserve the right to reject any or all bids. Bids shall be submitted upon blanks to be obtained upon application at the office of the Engineers.

MORELL & NICHOLS,

Landscape Architects & Engineers,  
902 Palace Building, Minneapolis, Minn.

### BANK AND OFFICE BUILDING.

Grand Forks, N. D.

Sealed bids will be received by the Board of Directors of the Scandinavian American Bank and Northwestern Trust Company of Grand Forks, North Dakota, up to noon, April 29th, 1914, for the erection and completion of a Bank, Store and Office Building, to be erected at Grand Forks, North Dakota.

Each bid must be accompanied by a certified check equal to 5 per cent of the amount of bid, payable to the Scandinavian American Bank of Grand Forks, North Dakota, as a guarantee that the bidder will enter into a contract, should it be awarded to him.

Separate bids will be received on the following work:

a. General work, including the erection of the structural steel and hauling same from the cars.

b. On furnishing the structural steel F. O. B. Grand Forks.

c. On the Heating.

d. On the Plumbing.

e. On the Electric work.

All bids must be made in strict conformity with the plans and specifications prepared by Buechner & Orth, which can be seen at the office of the Northwestern Trust Company, Grand Forks, North Dakota, Builders'

Exchange, St. Paul, Minneapolis and Duluth, and at the office of Buechner & Orth, Architects, 500 Shubert Building, St. Paul, Minn.

### COTTAGES EIGHT AND NINE.

State Asylum, Anoka.

Sealed proposals will be received by State Board of Control in their office in the State Capitol Building at St. Paul, Minn., until 2 P. M., April 8, 1914, for the erection and completion of cottages 8 and 9 at Anoka State Asylum, including the general contract work, heating and ventilating, plumbing and electrical work, in accordance with plans and specifications furnished by C. H. Johnston, Architect, 715 Capital Bank Building, St. Paul, Minn. Bids will be received collectively and separately. Bids to be submitted only on form of bid supplied by the Architect; no other form will be considered. Bids to be accompanied by a certified check for 4 per cent of the amount of the bid, payable to State Board of Control, which check will be returned when building contract is executed.

Copies of above plans and specifications may be seen at Builders' Exchanges, St. Paul and Minneapolis, at the office of the State Board of Control as above and at the office of John Coleman, superintendent of above institution.

Extra copies of the plans and specifications may be obtained on application to the Architect on payment of cost of duplication. Successful bidders must furnish the Board with a surety bond in 75 per cent of the amount of contract. The right is reserved to accept or reject any or all bids.

## FREE HELP WANTED ADVERTISEMENTS

**WANTED**—Young man with good references as estimator. State wages and experience first letter. Address, W. J. CURREN, Valley City, N. D.

### Wanted.

An experienced superintendent who understands railway construction and dirt moving, for construction of Rural Highways in Koochiching county. State experience and salary. Northwestern Construction Co., International Falls, Minn.

Wanted—Architectural Draftsman at once for general office work. State experience and salary wanted in letter. James C. Stitt, Architect, 13-14 Norfolk Nat. Bank, Norfolk, Neb.

Architectural Draftsman wanted, state experience and salary in first letter. J. W. Bradford, Architect, Fort Dodge, Iowa.

### STUCCO CONTRACTOR WANTED.

Name and address of person or firm in the stucco business who can handle a contract to put stucco on a house wanted. Address, M. A. Johnson, Cashier, Farmers' State Bank, Monterey, Minn.

### ROCK CRUSHERS WANTED.

Wanted to buy second hand rock crusher. Must be in good condition. Address, W. J. CURREN, Valley City, N. D.

### NOTICE OF ANTON P. HILL & CO.

We had one job with Audin Olson as partner in the Lake Harriet Bank Building only, and we have no further connection with Mr. Audin Olson, respectfully submitted.  
ANTON P. HILL & CO.

### WANTED TO BUY CONCRETE MIXER.

Wanted one second-hand concrete mixer, one-quarter or one-third yard with side loader water tank and gasoline engine. Also a gasoline engine six-horsepower with hoist attachment. State lowest price and state where they can be seen.

A. P. HILL CO.,  
4752 Upton av. S.,  
Minneapolis, Minn.

### CORN PALACE BUILDING.

Mitchell, S. D.

New Corn Palace Building. Architect for above building wanted. Write Lewis Shuster, Mitchell, South Dakota, Secretary of Committee.

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San Francisco—445-47 Turk St.  
Cleveland—419-20 Citizens' Bldg.  
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Philadelphia—411 Walnut St.  
Boston—49 Federal Street.  
Duluth—310 W. Michigan St.  
Milwaukee—Stroh Bldg.  
Rochester—38 Exchange St.  
Dallas—Builders' Exchange.  
Los Angeles—928 S. Main St.









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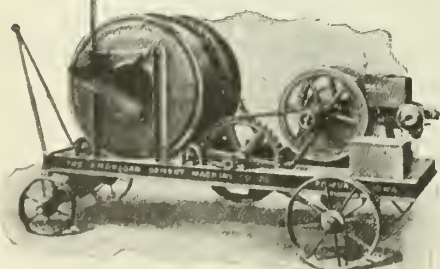
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**Iowa, Storm Lake**—Bids received by W. W. Bennett, auditor of Buena Vista county, until 10 a. m., April 7, for about 13 miles of county road grading, requiring 42,362 cubic yards of excavation work; check for 10 per cent.

**Iowa, Tama**—Bids received by T. M. McCurdy, city clerk, until 2 p. m., April 14, for improvements by grading and paving; plans by Aetna Engineering Bureau, 17 N. La Salle st., Chicago.

**Iowa, West Union**—Bids received by R. P. Camp, city clerk, until April 21, for approximately 28,000 square yards paving; bids on either concrete, asphaltic concrete, bitulithic, brick and creosote block, will be received; plans by M. Tschirgi & Sons, Cedar Rapids, Iowa.

**Minn., Buffalo**—County auditor John A. Berg, authorized to advertise for bids on 30 adjustable 2-horse steel drags, 8 No. 2 slip scrapers, 8 11-inch road plows, 16 long handled shovels.

**Minn., Grand Rapids**—Bids received by M. A. Spang, auditor, Itasca county, until 10 a. m., April 8, for construction of the Alwood-Bigfork road, 17.46 miles; check for 5 per cent.

**Minn., Hibbing**—Bids received by O. Halden, auditor St. Louis county, until 2 p. m., April 6, for construction work on 8 miles on various roads; check for 2 per cent.

**Minn., Hutchinson**—Bids received by L. S. Richards, town clerk, 2 p. m., April 18, for grading highway.

**Minn., Morris**—Bids received by F. E. Ware, auditor of Stevens county, until 10 a. m., April 13, for state roads Nos. 5 and 7; road No. 5 to require 8,745 cubic yards grading, 5,590 lineal feet turnpiking, 6 concrete culverts, 6 12-inch corrugated culverts 158 feet long, in all; road 7 to require 9,097 cubic yards grading, 8,500 lineal feet turnpiking, 9 concrete culverts, 3 12-inch corrugated culverts, 84 feet long in all, and one 18-inch corrugated culvert 9 feet long; check for 5 per cent.

**Minn., New Ulm**—Bids received by Herman Polkow, commissioner, 5th district, until 2 p. m., April 15, for grading and graveling one mile road in town of Stately; address care of Louis G. Vogel, county auditor, New Ulm.

**Minn., Owatonna**—Bids received by M. J. Parcher, auditor of Steele county, until 11 a. m., April 25, for state rural highway No. 4, the estimated cost of which is \$17,048, and the work required being: for clearing and grubbing, 861.8 square rods; grading, 20,021.5 cubic yards; turnpiking 16,450 lineal feet; borrowing 4,787 cubic yards; graveling 7,040 cubic yards; culverts, 21 concrete box; placing 11 corrugated; bridge known as State bridge No. 1031; tile 700 feet 10-inch tile; check for 10 per cent.

**Minn., Pine City**—W. H. Hamlin, county auditor, has been instructed by county commissioners to advertise for bids for construction of 5 miles of state road in town of Finlayson.

**Minn., Springfield**—Bids received by C. M. Moe, town clerk, Burnstown, until 2 p. m., April 18, for grading and graveling half a mile of road; check for \$200.

**Mont., Baker**—Bids received by C. J. Doussman, town clerk, until 4 p. m., April 7, for concrete and wooden walks; check for \$100.

**Mont., Billings**—Bids received by F. E. Williams, county clerk, until 2 p. m., April 9, for grading a portion of the Alexander road, and for construction of three timber bridges, one 16-foot, one 24-foot and one 32-foot. Check for 5 per cent.

**Mont., Lewistown**—Paving has been ordered on Main st. and 1st av. and steps are now being taken to advertise for bids; address city clerk.

**N. D., Cando**—Bids received by F. F. Vaughn, county auditor, until 9 a. m., April 7, for all metal road culverts required by the county for one year; check for \$100.

**N. D., Napoleon**—Bids received by Carl Kaz, auditor, Logan county, 2 p. m., April 7, for 60 12-inch, 3 18-inch and 1 24-inch steel galvanized, corrugated and metal culverts; check, \$50.

**Wis., Appleton**—All bids rejected on paving on Lake and other sts., and the work will be done by the board of public works; address city clerk.

**Wis., Cascade**—Bids received by G. W. Ubbelohde, county superintendent of highways, route 9, Sheboygan Falls, until 10 a. m., April 11, for one mile of road just west of the village of Waldo.

**Wis., Lake Geneva**—New bids received by J. P. Hurtgen, engineer, until April 13 for 2,000 square yards creosoted wood block pavement, all bids opened March 10, having

been rejected, the lowest bidder then being Jas. Kennedy, Fargo, at \$49,466.

**Wis., Monroe**—City clerk instructed to advertise for bids for paving on Jackson and other streets.

**Wis., Monroe**—Bids received by Wm. Dunwiddie, city clerk, until noon, April 15, for furnishing 8,912 square yards pavement complete, 945 lineal feet granite retaining curb, 25 lineal feet curb and gutter and 150 square feet cement walk; bond for 25 per cent.

**Wis., Superior**—Bids received by A. F. Chadwick, chairman board of public works, until 1 p. m., April 13, for improvements by grading or regrading and paving Cumming av. with a permanent pavement having concrete foundation and one of the following wearing surfaces; reinforced concrete, sheet asphalt, asphaltic concrete and creosoted blocks.

#### CONTRACTS AWARDED.

**Iowa, Bloomfield**—Contract let to Spaulding & Kearns, Fairfield, Iowa, for 8 blocks of paving; Portland cement and concrete, two course work on Pine, Locust and Walnut sts., with combination curb and gutter at \$1.46½ per square yard; one course Portland cement concrete with header curb on North Washington st. at \$1.41 per square yard; alley in block 19 will be one course Portland cement concrete at \$1.45 per square yard. Other bidders were the Bryant Asphalt Co., Waterloo, and Raymond & Wright Co., Des Moines.

**Iowa, Boone**—Contract for paving with asphaltic concrete has been let to Des Moines Asphalt Paving Co., Des Moines, at \$1.54½ for class A and \$1.44½ for class B.

**Iowa, Davenport**—Contract for paving Harrison st., with asphalt has been let to McCarthy Imp. Co., at \$11,556.

**Iowa, Missouri Valley**—Contract with Western Construction Co., successors to Hoar & Parkinson, Iowa City, for paving with brick at \$52,000; there were 12 bidders.

**Iowa, Monticello**—Contract with F. K. Hahn, Cedar Rapids, Iowa, for 12,400 square yards dalarway paving at \$1.34 per square yard, total, \$20,284. Other bidders were: Dearborn Construction Co., Waterloo, Iowa, \$22,840; Hubbell Construction Co., Davenport, Iowa, \$21,603; Gate City Construction Co., Omaha, Neb., no bid on dalarway; A. Kornman, Muscatine, Iowa, \$22,201; Western Construction Co., Iowa City, Iowa, \$22,035; C. B. McNamara, Dubuque, Iowa, \$23,514.

**Iowa, Pella**—Contract with Wm. Harrabin, Iowa City, for bitulithic pavement at \$1.98 per square yard; specifications called for bids on 400 cubic yards of excess excavation, 37,710 square yards surface paving, and 2,378 lineal feet of combined curb and gutter. Bids were received for all or part of this work from the following firms: Spaulding & Kerns, Des Moines Asphalt Paving Co., Capital City Concrete Construction Co., of Springfield, Ill., Turner Improvement Co., Western Construction Co., of Iowa City, Bryant Asphalt Paving Co., of Waterloo, J. S. McLaughlin & Sons, Red Oak, Wm. Horrabin, Iowa City, Ford Paving Co., Cedar Rapids, Charles Lautenbach and Abraham Den Adel of Pella.

**Iowa, Pocahontas**—Contracts have been made with Minnesota Steel & Machinery Co., Minneapolis, 3 oil tractors, \$6,198; Austin-Western Road Machinery Co., Chicago, 3 graders, \$1,800; Fort Dodge Culvert Co., corrugated culverts for year 1914.

**Iowa, Sioux City**—Contracts for paving in various streets have been made with Jensen & Krage, Cady & Savonell Co., M. L. Flinn Co., and Hanlon & Oakes.

**Minn., Austin**—Contract awarded to the Gallion Iron & Manufacturing Co., through its Minneapolis office, to supply Mower county with one 10-ton roller, graders and other machinery.

**Minn., Litchfield**—County board bought a Pioneer tractor built at Winona at \$2,700, including extras; for cylinder gas.

**Minn., Mankato**—Contract awarded Widell Co., city, for paving with 1-course concrete at \$1.02 per square yard; without steel reinforcement; other bids on the same basis were: M. L. Flinn Paving Co., Sioux City, Iowa, \$1.17; Fielding & Shepley, St. Paul, Minn., \$1.38; North Star Concrete Co., city, \$1.23; T. R. Coughlan Co., city, and the General Contracting Co., Minneapolis bid.

**Mont., Billings**—Contract awarded Warren Construction Co., Portland, Ore., for paving district 110, gravel bitulithic, \$27,971; contract to Hanlon & Oakes, Sioux City, Iowa, for paving district 109, wood blocks, \$19,949; other bidders on district 110, Warren Construction Co., gravel bitulithic, \$27,971.05; wood blocks, \$44,562.10; bitulithic, \$31,735.85; Portland cement concrete, one course, \$24,578.90; Portland cement concrete, two

course, \$24,578.90; James Kennedy: Portland cement concrete, one course, \$23,211; Portland cement concrete, two course, \$24,975.75; S. Birch & Sons: bitulithic, \$32,551.70; gravel bitulithic, \$28,551.60; Portland cement concrete, one course, \$24,453.55; Hanlon & Oakes: Portland cement concrete, one course \$25,914.60; Portland cement concrete, two course \$255,914.60; G. H. Nash & Co.: wood blocks \$45,024.85; Portland cement concrete, one course, \$24,634.95; Portland cement concrete, two course, \$26,164.40; Wesch & Berry: Portland cement concrete, one course, \$24,007.30; Portland cement concrete, two course \$24,948.50; Nowell-Atherly Co.: wood block, \$46,882.35; bitulithic, \$40,199.05; gravel bitulithic, \$35,140.10; bitulithic concrete (a), \$30,198.80; bitulithic concrete (b), \$27,845.80; Portland cement concrete, one course, \$25,966.10; Portland cement concrete, two course \$27,497.55; Hassam, \$25,526.60.

**Mont., Billings**—Contract with A. L. Clark for the Lloyd Lipp road.

**Neb., Kearney**—Contract with David Ludington to excavating certain streets preparatory to paving.

**Neb., Lincoln**—Contract with the Abel & Roberts Construction Co. to pave district No. 284 with asphaltic concrete; Burke-Cockrane Construction Co. was awarded contract to pave district 268 and 285, 285 asphaltic concrete and 268 sheet asphalt.

**Wis., Fond du Lac**—Contracts for road machinery let as follows: J. I. Case Co., Racine, Wis., one crusher \$1,745; Austin-Western Road Machinery Co., Chicago, 1 10-ton gas and oil roller, \$2,500; 1 crusher, \$1,757.50, 1 road grader \$135, 3 slip scrapers \$12.75, 1 road plow \$18.50, 1 roofer plow \$30; Huber Manufacturing Co., Marion, O., 1 sprinkling wagon \$105; Anderson Vehicle Co., 3 dump wagons at \$75 each.

**Wis., Madison**—Contract been made and approved for street improvements as follows: John Delaney, \$21,902; John R. Cullinane, \$33,274; J. W. Mitchell, \$7,215.

**Wis., Milwaukee**—Contracts for paving made with Badger Construction Co. and the White Construction Co. with asphalt, the prices ranging from \$1.75 to \$2 a square yard depending upon surface.

**Wis., Superior**—Contract with Fielding & Shepley, St. Paul, Minn., for paving with asphalt 34,860 square yards on Tower av., at \$79,274.

## Sewers

Notes arranged alphabetically by states.

**Ida., Boise**—Council will create main and lateral sewer districts, south side; cost \$56,645.

**Iowa, Bedford**—The city council will consider a septic tank and filtration system; address city clerk.

**Iowa, Cresco**—Hearing April 23 on main and lateral sewers to be of vitrified sewer pipe 12-inch in diameter for the main sewer and 8-inch in diameter for the laterals; A. W. Gillett, city clerk.

**Iowa, Davenport**—Street commissioner instructed to proceed with construction of sewer on LeClaire st., between Central Park av. and Dover court.

**Iowa, Mason City**—Hearing April 20, on an 8-inch vitrified pipe lateral sewer about 559 feet; J. H. McEwen, city clerk.

**Minn., Red Wing**—A. E. Rhame, city engineer, estimates cost of repairing combination sewers at \$34,000, and recommends it be extended over several years.

**Minn., Sleepy Eye**—Special election April 7 to authorize bonds in the sum of \$35,000 to establish a sewer system, drainage system and purification plant; H. C. Peterson, city recorder.

**Minn., St. Paul**—Board of public works will endeavor to have an extensive sewer system in the state fair grounds by fall, known as the Snelling-Como sewer system; state has appropriated \$30,000 to help finance it; address Leonard C. Seamer, clerk of the board.

**Minn., Waseca**—Hearing April 6, on a 450 foot sewer; John Madigan, city clerk.

**Neb., York**—Bonds voted on April 21, for a reinforced concrete storm sewer to cost, \$30,000; about 1,000 feet, 7x9 feet mains and 1,000 feet 4-foot laterals; Adna Dobson, engineer, Lincoln, Neb.

**S. D., Armour**—Wm. Bruce, Yankton, S. D. will prepare plans for a \$45,000 sewer system here.

**S. D., Sioux Falls**—Board of commissioners





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planning for lateral sanitary sewers on 9th av., 18th st., 19th st. and Center av.; Walter C. Leyse, city auditor.

#### BIDS WANTED.

**B. C. Vancouver**—Bids received by city purchasing agent for 7,000 feet 12-inch, 4,000 feet 10-inch, 2,000 feet 16-inch vitrified sewer pipe.

**Iowa, Burlington**—City engineer instructed to advertise for bids on Prospect hill sewer, combination storm water and sanitary main trunk and branch sewers; Robert Kroppach, city engineer.

**Iowa, Osage**—Bids received by city clerk, until April 15, for a sewer system and disposal plant; plans by E. E. Harper and O. W. Stiles, associate engineers, 911 Grand av. Temple, Kansas City, Mo.

**Iowa, Sheffield**—Bids received by city clerk about May 1, for construction of water works and sewer system from plans of E. E. Harper and O. W. Stiles, associate engineers, room 911 Grand av. Temple, Kansas City, Mo.

**Minn., St. Paul**—Bids received by Leonard C. Seamer, clerk board of public works, April 9, for the Hamline-Jefferson main sewer; the proposed sewer is estimated to cost \$222,000, of which \$97,000 has been set aside from the sewer bond account fund.

**Mont., Miles City**—Bids received by J. E. Farnum, city clerk, noon, April 13, for sewer work in district 43; check for 10 per cent.

**Wis., Beaver Dam**—Bids received by J. F. Murphy, chairman, board of public works, 7:30 p. m., April 10, sewer, James st.

**Wis., Breen Bay**—Bids received about April 15, by A. Brauns, city engineer, for 175 feet 10-inch vitrified pipe in Mason st.

**Wis., Fond du Lac**—Bids received by J. S. McCullough, city engineer, about April 10.

**Wis., Grafton**—Village votes April 7, on sewer bonds in the sum of \$10,000; R. P. Zaun, village clerk.

**Wis., Menomonie**—Bids received by J. R. Mathews, chairman of board of public works, until 2 p. m., April 8, for combined sewers, one mile 8 to 36-inch, vitrified pipe and half mile 28 to 42-inch brick sewer pipe.

**Wis., Menomonie**—Bids received until April 15, on combined sewers; establishment of second; J. R. Mathews, chairman, board of public works.

**Wis., Monroe**—Bids received by Wm. Dunwiddie, city clerk, until noon, April 7, for about 280 feet of sewer line No. 5; check for 10 per cent.

**Wis., Ripon**—Bids received by J. W. Pierce, clerk, board public works, 4 p. m., April 25, for 875 feet sewer; check \$200.

#### CONTRACTS AWARDED.

**Neb., St. Paul**—Contract with Elkhorn Construction Co., Fremont, Neb., for a sewer outlet and sewer district No. 1, at \$14,838.

## Bridges

*Notes arranged alphabetically by states.*

**Iowa, Davenport**—Scott county will spend this year \$40,000 on bridge improvements; \$20,000, will be contracted for next month; supervision, J. M. Malloy, county engineer; \$15,000 on new bridges, concrete arches and abutments, steel superstructure.

**Iowa, Onawa**—Board of supervisors passed resolution to construct three bridges and culverts; objections April 8; J. P. Orlander, county auditor.

**Minn., Duluth**—In construction of county ditch No. 2, the erection of 27 steel bridges will be necessary; E. K. Coe, county road engineer; O. Haldin, county auditor.

**Mont., Great Falls**—Contract for corrugated metal culvert material awarded to Fort Dodge Culvert Co., Fort Dodge, Iowa.

**Mont., Hardin**—Big Horn Canyon Irrigation & Power Co. will build a bridge over Big Horn river, 600 feet long; Ed. Lawler, secretary, A. W. Koch, engineer, all of Hardin.

**Mont., Miles City**—The Milwaukee road is planning to span all creeks between here and Marmarth with concrete bridges to replace the wooden bridges.

**N. D., Mohall**—Contract for bridge at McKinney will be readvertised this month.

#### BIDS WANTED.

**Iowa, Algona**—Bids received by B. E. Norton, county auditor, 2 p. m., April 9, for culvert pipe delivered on the different sizes, also on lumber and piling for bridge work; check for \$100.

**Iowa, Cresco**—Bids received 1 p. m., April 8, for 5 bridges and culverts; check for 5 per cent; E. A. Hoopman, county auditor.

**Iowa, Des Moines**—Bids received by Horace Susong, city clerk, 10 a. m., April 15, for highway bridge over Raccoon river, to be completed before April 1, 1915, and work to begin on or before July 1; check for \$10,000.

**Iowa, Rockwell City**—Bids received by C. O. Dixon, county auditor, 1 p. m., April 6, for steel and concrete bridges; check for 5 per cent. One 80-foot steel bridge with concrete floor and abutments, 16-foot roadway in Lake Creek township; three 75-foot span steel bridges, concrete floors and abutments, piers, 18-foot roadway in Jackson township; 1 8x8 reinforced concrete culvert, 46-foot barrel, depth of fill 12 feet.

**Iowa, Tipton**—Bids received by T. C. Moffitt, 12 m., April 6, for 24 bridges; check for 5 per cent.

**Iowa, Waterloo**—Bids received by J. J. Rainbow, county auditor, 2 p. m., April 6, for repairs to wooden bridges and culverts for the year 1914. Bids to include prices on dredging piling per lineal foot, county will furnish piling and new lumber; bids must include hauling of piling and lumber, tools hardware and labor to perform said work; 2d building concrete culverts and bridges, county to furnish all material and concrete mixer; check for \$100.

**Minn., Beaver Creek**—Bids received by Geo. Crossman, chairman, town board, 1 p. m., April 4, for construction of 40-foot three girder span bridge, 18-foot roadway; check for 5 per cent.

**Minn., Center City**—Bids received by A. F. L. Stromberg, county auditor, 3 p. m., April 16, for building state bridge No. 1176 town of Sunrise; double 30-foot beam span, 18-foot roadway, concrete floor on concrete and steel foundations; check for 5 per cent.

**Minn., Chaska**—Bids received by J. M. Aretz, city clerk, 8 p. m., April 13, for re-inforced concrete approaches Minnesota bridge; check for 5 per cent.

**Minn., Chaska**—Bids received by J. M. Aretz, city clerk, 8 p. m., April 13, for construction of re-inforced concrete approaches to Minnesota River bridge here; check for 5 per cent.

**Minn., Crookston**—Bids received by H. J. Welte, county auditor, April 20, 2 p. m., for concrete culverts from 12 to 60 inches to be used during the year 1914.

**Minn., Lake Park**—Bids received by C. O. Nohen, chairman, 1 p. m., April 13, for two bridges.

**Minn., Luverne**—Bids received by Chris. Fitzer, April 3, 10 a. m., for construction of concrete slab; 16-foot span, 18-foot roadway; check for 5 per cent.

**Minn., Minneapolis**—Bids received April 6, 11 a. m., for building bridge in town of Plymouth; check for 5 per cent.

**Minn., Sartell**—Bids received by F. N. Sartell, village clerk, 11:45, April 16, for construction of a 3-span steel and concrete bridge, 420 feet long, over Mississippi river at this place; check for \$4,000.

**S. D., Hot Springs**—Bids received by D. K. Batchelor, county auditor, 12 m., April 10, for all steel bridges that may be required in county for year 1914. Check for \$1,000.

**Wis., Fond du Lac**—Bids received by A. S. Wilkinson, county clerk, 9 a. m., April 15, for building a plate girder bridge with concrete floor and rubble concrete abutments over Rock river in town Waupun on the Fond du Lac road; check for \$100 payable to treasurer town of Waupun.

#### CONTRACTS AWARDED.

**Iowa, Dennison**—Contract let by county board, \$14,000, to Marsh Engineering Co., Koss Construction Co., Des Moines; Des Moines Bridge & Iron Co., Lana Construction Co. and E. McNeal, Deloit.

**Iowa, Mason City**—Contract for erection of concrete arch bridge over Lime creek let to N. M. Stark, Des Moines, at \$12,900.

**Iowa, Burlington**—Contract for steel for county bridges let to Clinton Bridge Co., Clinton.

**Mont., Livingston**—Contract for three concrete culverts awarded to C. T. Heaton at \$1,025.

**Iowa, Elkader**—Contracts awarded and bids received Mar. 24 by the board of supervisors of Clayton county, Iowa, for construction of sixty-one bridges and culverts; successful bidders as follows: Paul N. Kingsley, Strawberry Point, Iowa, \$22,823; A. C. Boyle, McGregor, Iowa, \$7,850; Clinton Bridge Works, Clinton, Iowa, \$6,200; Josef Vogt, Guttenberg, Iowa, \$3,245; Iowa Bridge Co., Des Moines, Iowa, \$2,725; Chambers &

Dobson, New Hampton, Iowa, \$1,826; C. H. Williamson, Elkader, Iowa, \$465; A. P. Schweikert, Littleport, Iowa, \$537; total of contracts awarded, \$45,701; total of engineer's estimate, \$44,952; types of bridges with the average units costs of concrete and steel in place: Two concrete slabs, 16 and 24 foot, concrete, \$11.15; one concrete through girder, 34-foot, concrete, \$11.75; thirty concrete box culverts, 2x2 feet to 8x8 feet, average, 22 feet long, concrete \$13.55; four pony trusses from 40 to 96 feet, concrete abutments and floors, concrete \$13.45, steel \$77.66 per T.; two riveted high trusses, 110 feet each, concrete abutments and floor, concrete \$9.78, steel \$68.00 per T.; eight 1-beam spans, concrete abutments and floors, 13 to 30 feet, concrete \$10.62, steel \$77.80 per T.; two-piles trestles, 20 and 56-foot spans, lumber \$63.99 per thousand; eleven bridges repaired, concrete wings, masonry, rip-rap, retimbering, etc. Edward B. Tourtelot, county engineer.

**Iowa, Northwood**—County board resolved to construct steel bridge between sections 4 and 9-9-20; 96-foot span, 16-foot roadway; objections April 6; C. N. Urdahl, county auditor.

## Water Works

*Notes arranged alphabetically by states.*

**Iowa, Audubon**—Jas. Law has started work on the reservoir for water plant.

**Iowa, Bedford**—Construction of a filtration plant and a spec tank has been ordered by state board of health; Lafayette Higgins sanitary engineer will be here in 10 days and consult with council on the proposition.

**Iowa, Boone**—Bonds for \$20,000 were voted for extension water mains.

**Iowa, Carroll**—Council voted to extend water mains.

**Iowa, Coin**—This city will vote on issuing bonds for \$20,000 for water works.

**Minn., Delano**—School board asked water mains extended to school building.

**Minn., Jeffers**—Water works bonds were defeated.

**Mont., Baker**—City Engineer Cory is making estimates and plans reservoir, dam and water system.

**Mont., Lewistown**—Bonds for \$90,000 were voted to extend iron water works system several miles up Spring Creek; W. D. Symmes, mayor.

**Mont., Melstone**—Council plans construction water works system this summer; write village clerk.

**Mont., Three Forks**—A vote will be taken April 23, on issuing bonds for a water works system, in the sum of \$45,000.

**Neb., Falls City**—City purchased land for city wells.

**Neb., Omaha**—Water board authorized purchase of pump; cost \$27,750.

**Wis., Antigo**—This city took over water plant April 1, paying \$128,000 for same.

**Wis., Colfax**—Village council is considering installing a water works system and bonds will be voted on for same.

**Wis., Marshfield**—Board of public works considering building a reservoir and installing a motor driven pump for an additional water supply; Mr. Young superintendent. A vote will be taken on same at April election.

#### BIDS WANTED.

**Iowa, Sioux City**—Bids received 10 a. m., April 4, for a deep well, turbine pump, motor and accessories; check for 10 per cent; J. B. Healey, superintendent.

**Minn., Alberta**—Bids received by John Geib, village clerk, April 14, for furnishing, laying 1,700 feet 8-inch tile and 900 feet of 10-inch tile.

**Minn., Redwood Falls**—Bids received by D. G. Klein, village recorder, 8 p. m., April 15, for construction and completion of a water works system.

**Minn., Sanborn**—Bids received by D. G. Klein, village recorder, 8 p. m., April 15, for water works system; check for \$1,000; officially advertised in this issue of Improvement Bulletin.

**Neb., Atkinson**—Bids received by D. L. Jouvenat, village clerk April 15, for laying 2050 feet of 6-inch mains 5,109 of 4-inch mains, furnishing and setting 15 4-inch hydrants, 3 4-inch gate valves and boxes; check for 5 per cent. No check accepted for less than \$75, Alamo Engine & Supply Co., engineers, Omaha.

**Wis., Albany**—Bids received by L. O.



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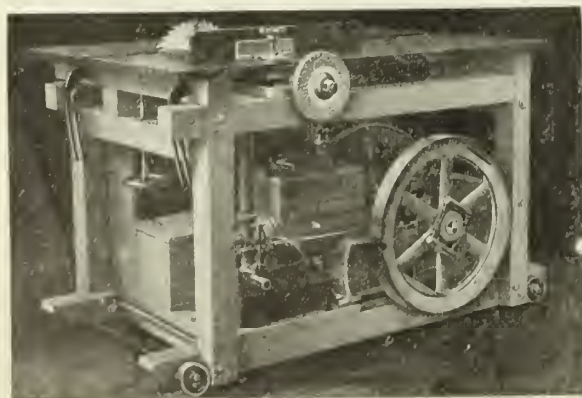
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Lewis, village clerk, 7.30 p. m., April 9, for furnishing of 6,237 feet of 4-inch and 9,398 feet of 6-inch pipe, class B.; 72 60-foot special castings, glass D; 30 hydrants; 14 4-inch and 6-inch valves, 14 boxes, laying 15,650 feet of 4-inch and 6-inch; construction of 1 14x60 reinforced concrete stand-pipe on a 40,000-gallon steel tank, drilling 8-inch well, 500 feet deep; certified check \$300 to \$500; bond 25 per cent of contract price; W. G. Kirchoffer, engineer, Madison, Wis.

#### CONTRACTS AWARDED.

**Minn., Fairfax**—Contract for cast iron water pipe let to American Cast Iron Pipe Co.

**Neb., Dorchester**—Contract for water works let to Alamo Engine & Supply Co., Omaha.

**Neb., Superior**—National Co., South Bend, Ind., awarded contract for water works system.

**S. D., Huron**—Frank Jaehn Construction Co., Huron, received contract to build filtration plant, at \$24,475; S. S. Oviat, city clerk.

north and east of Newell; address U. S. Reclamation Service, Washington, D. C.; Denver, Colo.; or Newell, S. D.

#### CONTRACTS AWARDED.

**Minn., Fairmont**—Contract awarded judicial ditch 31, to Geo. Lark, \$2,900; other bids: L. P. Axelson, \$2,451; W. C. Markland, \$3,497; W. D. Lovell Co., \$3,840; D. C. Armstrong & Co., \$3,800; Jurs Jurgeson, \$3,000; Schaefer Bros., \$2,920; Anton Jeffen, \$3,587; Walter Anderson, \$3,700; P. E. Jennings, \$3,850; Gregers Christianson, \$2,600; Sorenson & Beise, \$2,200; contract for judicial ditch 32 awarded to John Peterson, Clear Lake, Iowa, \$8,295; Lars Rogde, \$8,700; Parrish & Sedgley, \$9,300; contract for judicial ditch 33, to Schaefer Bros., Fairmont, \$2,350.

**N. D., Lakota**—Contract awarded to A. F. Turner, Grand Forks, for drain No. 1, at \$7,000; 2½ miles, ¾-mile tiled 18-inch.

### Hotels and Hospitals

*Notes arranged alphabetically by states.*

**Ida., Hailey**—Cliford See states a 4-story addition is to be made to the Hiawatha hotel.

**Iowa, Ames**—Architects are working out plans for the 75-room hotel to cost \$100,000; work of excavation to start at once; Parley Sheldon interested.

**Iowa, Waterloo**—The Presbyterian hospital will be remodeled and improved at a cost of \$60,000.

**Minn., Bemidji**—Work on the Markham hotel annex will start April 10; 3-story, brick, forty rooms.

**Minn., Cannon Falls**—E. H. Sund, architect Andrus building, Minneapolis, is preparing plans for the proposed Goodhue county hospital.

**Minn., Crookston**—Authorities of Bethesda hospital have decided to build a new building similar to present one and connect the two by a front entrance. T. T. Morken, for information.

**Minn., Granite Falls**—W. A. Huschfield has proposed to Commercial club that if business men will subscribe \$25,000 of \$50,000 needed he will raise the other \$25,000 for a high class modern 60-room hotel; J. S. Johnson, chairman of committee to see what can be done.

**Minn., Mahanomen**—E. Bailey & Son are planning to enlarge their hotel this summer.

**Minn., Mankato**—E. J. Himmelman has purchased adjoining property and may build an addition to his hotel.

**Minn., Ortonville**—The Ortons have begun work on their new summer hotel and rooming house; the big residence near the lake will be remodeled and additional rooms added.

**Minn., Rochester**—John Madden, Jr., John W. Madden and John Dyeste, it is reported, propose building a large rooming house to be operated in connection with a cafeteria.

**Minn., Warroad**—J. W. Ross, architect, Grand Forks, N. D., is preparing plans for proposed hotel here, to be called the Lake-wood; brick, thoroughly modern.

**Mont., Limington**—Homer Jackson has started construction of a 16-room hotel.

**Neb., Beatrice**—Plans being formulated for a 68-room fireproof hotel to cost about \$70,000; the James E. Butler family, which has operated the Butler for 30 years, behind the proposition; plans being prepared.

**Neb., Lincoln**—The state board of control will decide between Crete, Superior, Alma and Loup City for the location of the proposed \$150,000 reformatory.

**N. D., Grand Forks**—The Ingalls house burned; loss \$18,000.

**N. D., Hurdfield**—A modern hotel is being planned for; address the mayor for information.

**Sask., Regina**—Plans being prepared by Reilly, Dawson & Reilly, for the nurses' home here to cost \$85,000.

**S. D., Beresford**—Plans completed by E. H. Sund, architect. Andrus building, Minneapolis, for a kitchen and dining room to the Old People's home here; address, S. O. Stansland, Beresford.

**S. D., Dell Rapids**—The Dell Rapids Hospital Co. has perfected its organization and will erect a fine building; preliminary plans being prepared for building and estimates on the cost of frame and of brick and stone

or concrete structure, to investigate various locations, etc.

**Wis., Eau Claire**—Sketches for the addition to the Luther hospital have been submitted to the board by Frank Ellerbe, St. Paul. H. M. Knudtson, secretary.

#### BIDS WANTED.

**Iowa, Oakdale**—Bids received, state board of control, F. S. Treat, secretary, state capitol building, Iowa, for a 3-story, brick, stone-trimmed, fireproof, hospital building to be erected here; plans for a deposit of \$15; H. F. Liebbe, state architect.

**Minn., Anoka**—Bids taken by C. H. Johnston, architect, 715 Capital Bank building, St. Paul, until April 8, for cottages Nos. 8 and 9, at the insane asylum here; cost \$55,000.

**Neb., Norfolk**—Bids received by P. H. Salter, M. D., until 8 p. m., April 13, for Norfolk general hospital; heating, plumbing and lighting will be let under separate contracts.

**Wash., Seattle**—Bids will be called for within the next sixty days for the 10-story, 150-room hotel, costing \$200,000, to be built for the Kennedy Hotel Co.

**Wis., Little Rapids**—Bids are being taken by Fred Altmayer, De Pere, Wis., for the tuberculosis sanitarium to be built here; 101x50, 2-story and basement; \$18,000.

#### CONTRACTS AWARDED.

**Iowa, Calmar**—Contract with A. R. Coffeen, Decorah, Iowa, for the 50-room, 3-story hotel to be built by Thos. M. Pierce of Dubuque, cost to be about \$50,000. The hotel will have twenty rooms with bath, several apartments, also auditorium, dance and convention hall, vacuum system of heating, electric lights, push button call system and vacuum cleaning system, furnished throughout with brass beds, box springs.

**Iowa, Davenport**—Contract to Ryan Plumbing & Heating Co., city, for plumbing for Black Hawk hotel, at \$45,861; heating contract let to Urbauer-Atwood Heating Co., St. Louis, at \$36,580; subcontract heating to Johnson Service Co., Chicago, latter to care for heat regulation; nine bidders for heating contract.

**Iowa, Decorah**—Contract with John H. Austad, city, for the Aase Haugen home for aged people, at \$28,528; other bidders were: Fred Suhling, Decorah, \$30,864; B. L. Stratton, Mason City, \$33,614; G. L. Smith, Waterloo, \$33,967; Paul Braun, Dubuque, \$34,119; Western Construction Co., Waterloo, \$34,960; C. H. Werner, Waterloo, \$35,975; J. J. Peterson, Waterloo, \$37,870; J. W. Hopp Co., Cedar Rapids, \$40,448; the contract for heating and plumbing went to Peter Johnson Sons, city, at \$6,385; other bidders were: W. T. Delahunty Co., Decatur, Ill., \$7,100; Mason City Plumbing & Heating Co., \$7,000; Dahl & Mollart, Decorah, \$6,570; Schueth Bros., Dyersville, \$6,075.

**S. D., Yankton**—Contract has been let to H. F. Stolte, Redfield, S. D., for the 4-story Sacred Heart R. C. hospital at \$105,000.

**Wis., Wales**—Contract has been made with Henry Graff, Baraboo, for the three dormitories and a warehouse at the state tuberculosis sanitarium, at \$20,500.

### Public Buildings

*Notes arranged alphabetically by states.*

**Minn., Ortonville**—Plans for the library are still in New York; as soon as received the committee expect to get to work on building operations.

**Iowa, Pilot Mound**—City hall building to cost \$5,000 is proposed; address city clerk.

**Iowa, Knoxville**—Plans being prepared by H. F. Liebbe, state architect, Des Moines, Iowa, for the custodial building to be erected at the state inebriate asylum here and for an \$18,000 laundry at Glenwood, Iowa.

**Minn., Little Falls**—Plans for jail are to be prepared by Alben & Harris, architects, St. Paul; cost about \$30,000; B. Y. McNally, auditor, Morrison county.

**Minn., Sleepy Eye**—Plans for proposed armory about completed; address the mayor.

**Neb., Chappell**—Election soon to be held in Deuel county to vote on a \$25,000 bond issue for a new court house; address county clerk.

**Neb., Friend**—John W. Gilbert has offered to build and donate to the city a library building if the city will provide a site and take care of the property in the future, the cost of the building to be \$6,900.

**Neb., Geneva**—Election April 7, to vote on

### Drainage and Irrigation

*Notes arranged alphabetically by states.*

**Iowa, Eldora**—Cost of new drain districts, represented in petitions now on file in this county, would be \$70,000.

**Iowa, Hamburg**—Petition of John Shunick will be up for hearing April 9.

**Iowa, Oskaloosa**—County board decided drainage ditch from Kellogg bridge, to south county line, a necessity, surveys being made.

**Minn., Duluth**—County board considered reports of engineer and viewers on county ditch 2, 205,500 yards excavation, 24 miles clearing, 22 miles grading, 27 steel bridges; cost \$43,017; E. K. Coe, county road engineer.

**Minn., Fairmont**—Hearing 2 p. m., April 18, final, on judicial ditch 34, E. R. Flygre, clerk of court.

**Minn., Foley**—Hearing 1 p. m., April 14, on petition of Alban Nordstrom and others, for county ditch; J. E. Kasner, auditor, Benton county.

**Minn., Litchfield**—Hearing April 25, 10 a. m., on ditch petitioned for by P. W. McCarney, A. O. Palmquist, auditor Meeker county.

**Minn., Waseca**—Hearing 8 p. m., April 6, on file drain, city of Waseca; F. W. Prail, mayor.

**Neb., Tekamah**—County board acted favorably on proposed ditch, petitioned for S. S. Breckenridge and others, in Burt and Washington counties, to be known as Burt-Washington district; H. W. Whitaker, county clerk.

**Wis., Shiocton**—Petition filed circuit court, for drain to reclaim 8,000 acres, townships of Black Creek, Bovina, Cicero and dSeymore, Outagamie county; hearing April 20; Lehner & Lehner, Oconto Falls and F. S. Bradford, attorneys.

#### BIDS WANTED.

**Iowa, Harlan**—Bids received until 10 a. m., April 8, for ditch and lateral, Indian Creek, 7; check 10 per cent; E. A. Schell, county auditor.

**Iowa, Muscatine**—Bids opened here April 14, on Power plant to operate plant, drainage district 13.

**Iowa, Spirit Lake**—Bids received until 1 p. m., April 8, for improvements in drainage subdistrict 2; John S. Blow, county auditor; check for 10 per cent; bids received until same date, on drainage district 17, and on repairs, branch 139, 560 feet 8-inch tile, taken up and relaid.

**Minn., Bemidji**—Bids received by J. L. George, auditor Beltrami county, 10 a. m., April 28, judicial ditch No. 21, \$311,000; check 10 per cent; officially advertised in this issue Improvement Bulletin.

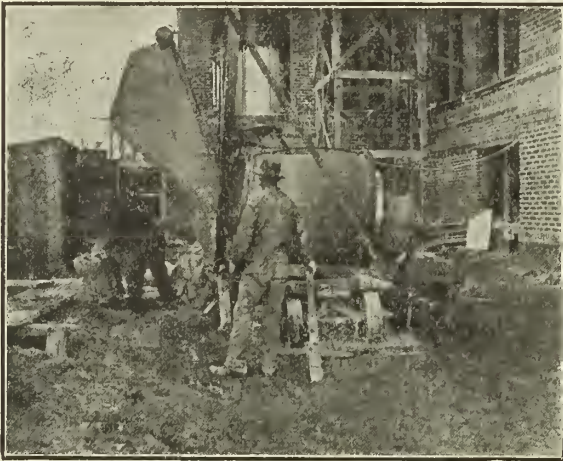
**Minn., Crookston**—Bids received until 10 a. m., April 28, for digging and constructing ditch 90; cost about \$11,710, for excavation; leveling 10 2-3 miles \$800; H. J. Welte, auditor, Polk county; J. E. Behn, engineer, Crookston; check for 10 per cent.

**Minn., Le Sueur Center**—Bids received until 2 p. m., April 11, for digging and constructing unfinished portion ditch 5; check 10 per cent.

**S. D., Newell**—Sealed proposals will be received at the office of the U. S. reclamation service, Newell, until April 15, 1914, for the construction of about 5 miles of the North Canal and 14 miles of laterals, Belle Fourche project, S. D.; excavation 199,200 cubic yards



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bonds for a \$10,000 city fire station; 2-story, brick and stone, cementing, plumbing, etc.

**S. D., Armour**—An appropriation of \$7,500 from Carnegie Library Foundation has been made; city expects to build a brick library; address Mrs. E. P. Wanzer for particulars.

**S. D., Rapid City**—City commissioners have been requested to submit to the voters at the annual election in April the proposition for suitable quarters for the fire department, to cost about \$10,000.

**Wis., Delton**—Election April 7 on expenditure of \$2,500 for a town hall; address town clerk.

**Wis., La Crosse**—Parkinson & Dockendorf, architects, preparing plans for stables, a rest room and other market place equipment, and estimates of cost will be made; address city clerk.

**Wis., Menomonie**—Work on superstructure of the postoffice will be begun about April 1, by Bailey-Marsh Co., Minneapolis; structural steel is on the ground.

#### BIDS WANTED.

**Iowa, Denison**—Bids for installing metal vault shelving in the U. S. postoffice were as follows: The Berger Manufacturing Co., Canton, O., \$271; Watson Manufacturing Co., Jamestown, N. Y., \$280; Crown Metal Construction Co., Jamestown, N. Y., \$286.70; H. H. Shults Co., Gowanda, N. Y., \$300; Van Dorn Iron Works, Cleveland, O., \$300; Keyless Lock Co., Indianapolis, Ind., \$300; Art Metal Construction Co., Jamestown, N. Y., \$325.50.

**Mich., Cadillac**—Bids received by O. Wenderoth, supervising architect, Washington, D. C., until 3 p. m., April 27, for the construction complete (including mechanical equipment, interior lighting fixtures, and approaches) of the U. S. postoffice at Cadillac, Mich.; the building is 1-story and basement, having a ground area of approximately 6,140 square feet; stone facing; tin roof; fireproof construction.

**Minn., Pipestone**—Tad A. Bailey, county auditor, writes that the county will be ready in a few days to advertise for bids for the decoration of the court house, to cost from \$3,000 up.

**Minn., Sanborn**—Bids will be called for soon for the proposed jail; address city clerk.

**\*Minn., Sauk Center**—Bids received by city clerk, until April 12 for a city "lockup," remodeled; steel beams, concrete fireproofing, common and hollow brick, new fire doors, window guards, etc. R. C. Buckley, architect, St. Cloud.

**Mont., Dillon**—Bids for lining the jail with steel and installing receiving cage were received from Pauley Jail Co., Stewart Iron Works Co., and Stimpson Equipment Co., but were all rejected, and it was ordered by the board that plans be sent to various jail building companies to present bids at the June session for eight new cells, etc. An architect will be employed to prepare plans. Jay S. Baker, county clerk.

**Neb., Hooper**—Bids received by Jacob Sanders, chairman board of trustees, until 8 p. m., April 20, for brick city hall; check for \$250; A. H. Dyer & Co., architects, Fremont, Neb.

**N. D., Ellendale**—Bids received by John King, city auditor, 7:30 p. m., April 10, for heating and plumbing municipal building; check for \$250.

**N. D., Fargo**—Bids received by A. R. Watkins, city auditor, until 5 p. m., April 14, for repairs to fire hall No. 1; check for \$100.

**N. D., Langdon**—Bids received by J. K. Hamilton, auditor of Cavalier county, until 2 p. m., April 14, for a 15-cell county jail and sheriff's residence; check for \$500 on general work and for \$200 on steel cell work; S. B. Prindle, architect, 143 N. Wabash av., Chicago from whom plans can be secured on a \$5 deposit.

**N. D., Manning**—Bids received by T. Le Roy Evans, county auditor, until 2 p. m., April 7, for the court house, 32x32, 18-foot posts.

**N. D., Wahpeton**—Bids received by O. Wenderoth, supervising engineer, Washington, D. C., until 3 p. m., May 5, for the construction complete (including mechanical equipment, interior lighting fixtures, and approaches) of the U. S. postoffice; the building is 1-story and basement, with a ground area of approximately 3,230 square feet; brick facing; composition roof; first floor of fireproof construction. Officially advertised in this issue of the Improvement Bulletin.

**Wis., Medford**—Bids received by A. J. Latton, secretary library board for the library building, 30x50, 1-story and basement, \$8,000; H. T. Liebert, architect, Wausau, Wis.

#### CONTRACTS AWARDED.

**Mont., Baker**—Contract with Pauley Jail

Building Co., for cell work for jail at \$1,928.

**Mont., Glendive**—Contract let to W. T. Perham, city, for the city hall, at \$24,951; other bidders were Piper Construction Co., Billings, at \$25,900; Gagnon & Co., Billings, at \$27,300, and a number of others.

**Neb., Sidney**—Contract with C. J. Grant for the library at \$6,400.

**N. D., Ellendale**—Contract let to Burnett & Nibbe, Lidgerwood, N. D., for municipal building at \$11,688. Other bidders were: E. M. Johnson, Aberdeen, \$13,022; S. W. Jonason & Co., Aberdeen, \$12,965; F. A. Hancock, Morris, Minn., \$14,621; Burnett & Nibbe, Lidgerwood, \$11,688. Bidders for heating and plumbing were as follows: C. Dresselhuys, Aberdeen, heating and plumbing, \$1,874; J. P. Riley, Fargo, heating and plumbing, \$2,374; H. C. Briley, Ellendale, heating, \$1,157.60, plumbing, \$594; W. B. Dow, Aberdeen, heating, \$1,329; Aberdeen Plumbing Co., heating, \$1,321, plumbing, \$799; Kelley Plumbing Co., Aberdeen, heating \$1,150, plumbing \$645; H. B. Rusco, Ellendale, heating, \$1,160; C. I. Hutchinson, LaMoure, heating \$1,109, plumbing \$573.

**N. D., Minot**—Contract let to John Lauritzen, Fergus Falls, Minn., for federal building here at \$124,650; limestone for exterior work, except where granite is required, and reinforced concrete for all floors.

## Theatres and Halls

*Notes arranged alphabetically by states.*

*Items marked with asterisk not in daily sheets.*

**Ida., Twin Falls**—E. C. Lavinger, Lavinger Furniture Co., plans modern fireproof opera house; completed by September; brick 60x125; seating capacity 700 main floor.

**\*Iowa, Albia**—United Mine Workers, district 13, will build a \$10,000 headquarters hall. W. H. Rodgers, president.

**Iowa, Eldora**—Carl S. and Jay S. Newcomer have submitted a proposition to Evergreen lodge K. of P. for a lodge and business building to cost \$25,000, they will furnish \$20,000 and the lodge the remainder; proposition accepted; building to be 75x106, brick and stone, and first floor corner will be occupied as a store and thirty-five feet adjoining will be a moving picture and vaudeville theater.

**Iowa, Eldora**—Preliminary sketches for the proposed K. of P. home have been made by Harry Edgar Hunter.

**Iowa, Le Mars**—The Le Mars Realty Co. has filed articles of incorporation with capital of \$50,000, and will build a theater or motion picture house, 60x100, seating capacity 500 or 600; white glazed tile brick for the front; fully modern.

**Iowa, Montrose**—The opera house and other buildings burned, loss \$10,000.

**\*Iowa, West Liberty**—J. E. Mills, architect, Detroit, Mich., has been consulting with building committee of Mt. Calvary lodge No. 95, A. F. and A. M., relative to proposed Masonic Temple.

**Mich., Ironwood**—Plans in hand by Anderson & Williams, architects, Green Bay, Wis., for a theater for W. L. Kelley, city.

**Mont., Big Thunder**—Knights of Pythias\* of this city have decided to erect a modern 2-story club building this summer; address Judge Geo. M. Briner.

**Mont., Big Timber**—Knights of Pythias are making arrangements to build a castle hall during the summer, 2-story, brick, modern; two stores below and hall above.

**\*Mont., Glasgow**—H. M. Wilson, manager of the Orpheum, announces a new motion picture theater will be built; 30x130, reinforced concrete, fireproof.

**\*Mont., Havre**—Plans drawn by F. F. Bosuot, city, for a theater building to be owned by Mrs. Harrington, Chicago; 30x160, fully modern, cost \$14,000; leased to V. Knapp, Boise, Idaho.

**Mont., Klein**—Dreamland theater building burned; owned by the Bull Mountain Trading Co.; insured.

**Mont., Libby**—The Libby Opera House Co. has permit for building a moving picture theater and remodeling the present one.

**Mont., Livingston**—The Loyal Order of Moose building will be 2-story and basement. Fred Myelde, chairman ways and means committee.

**Mont., Moore**—Odd Fellows' lodge has ordered plans for a hall, to be fireproof, 30x70, 2-story and basement, heating and plumbing; ground floor to be fitted up for an opera house.

**Mont., Red Lodge**—Knights of Pythias and Odd Fellows are working out a plan to build

jointly a 2-story brick business block and lodge home; corporation will be formed with \$20,000 capital; 50x100, modern. Plans completed by architect.

**Neb., Omaha**—The Bohemian Catholic gymnasium and benevolent school of St. Wenceslaus church has incorporated and is closing a deal for a site on which to build a \$30,000 club house; Chas. J. Kenzacek, one of the incorporators.

**Neb., Orchard**—Odd Fellows have completed arrangements for a lodge building.

**Neb., Polk**—Odd Fellows will soon begin erecting a new building.

**S. D., Hecia**—Plans being formulated for a fine opera house; address the mayor.

**S. D., Iroquois**—Albert Gaudian of the Crystal theater will build a moving picture theater at once; 25x75, with basement and gallery, probably cement blocks and attractive front of pressed brick.

**S. D., White Lake**—The Hanten Bros. will remodel their store and opera house building; brick and plate glass front, new stage, brick veneer or steel covering for building.

**Wash., Seattle**—Permit issued to the Catherine Blaine estate to build a \$160,000 theater; the foundation is in, contract not yet let.

**Wash., Wenatchee**—J. E. Ferguson considering building a \$50,000 theater building.

**Wis., Ashland**—Latts Bros. announce they are going to build an opera house and not simply a moving picture theater.

**Wis., Elkhorn**—Plans and specifications for Masonic Temple will soon be completed.

**Wis., Green Bay**—Plans for a theater for H. Goldman, city, have been prepared by Anderson & Williams, architects, city; 50x160, 2-story, brick, cost \$20,000; steel, iron, terra cotta, hollow brick, steam heat, electricity, composition roof, patent plaster, prism glass, interior marble, composition and tile floors.

#### BIDS WANTED.

**Mont., Miles City**—Bids received by J. B. Morrison, chairman, building committee, 4 p. m., April 25, for heating and plumbing of the Elks' home; check for 5 per cent.

**N. D., Grand Forks**—Bids received by Clarence A. Hale, secretary, board of trustees for the Masonic Temple, for the interior painting and decorating of the new Masonic Temple; check for 5 per cent.

**Wis., Stangelville**—Bids received by Jos. Konopp, owner, until April 6, for a dance hall and hotel; 49x68, 2-story and basement, \$8,000.

#### CONTRACTS AWARDED.

**Minn., Wells**—Contract for Knights of Columbus building has been let to Lenz & Prince, Minneapolis, at \$40,000; J. B. Nelson & Co., Mankato, were next lowest bidders; plans by H. C. Gerlach, Mankato.

**Mont., Miles City**—Contract with Clearman & Co., city, at \$44,850 for the Elks' building; other bidders were Meinicke Building Co., Marmarth, \$77,140; J. B. Morrison, city, \$46,108; contracts for plumbing and heating and for furnishing will be let later; building to be of reinforced concrete surfaced with Hebron pressed brick, 50x150, 50 feet high, with basement.

**Neb., Germantown**—Contract with R. O. Stake, 346 N. 28th st., Lincoln, Neb., for a theater and hall building for Louis Meyers, at \$5,380.

**\*Wis., Appleton**—Contract will be let to Fraser & Gruenke for Y. M. C. A. building, exclusive of heating, wiring, plumbing and furnishing, and including only fireproofing on the first floor at about \$60,000; electric wiring will go to Langstadt-Meyer Construction & Supply Co., at \$1,595. Other bidders including steam heat and plumbing, were as follows: Anderson-Strandberg Co., Chicago, \$95,000; Foster Construction Co., Milwaukee, \$99,045; Bailey-Marsh Co., Minneapolis, \$84,496; J. H. Hunziger, Iowa City, Iowa, \$75,500. Bids not including heat and plumbing were: Fraser & Gruenke, city, \$59,222; Appleton Construction Co., \$61,343; Geo. Ashman, \$62,490; Hegner Construction Co., \$65,607; Hoffmann & Sons, \$74,767; W. H. Mielke, \$83,532.

## Miscellaneous

*Notes arranged alphabetically by states.*

**Iowa, Marshalltown**—Jas. L. Denmead will build three greenhouses and an office, \$9,000; display house, service building, boiler room.

**Minn., Ely**—Concrete dry house begun for Oliver Iron Co., Sibley mine; steel; lockers for 300 men.



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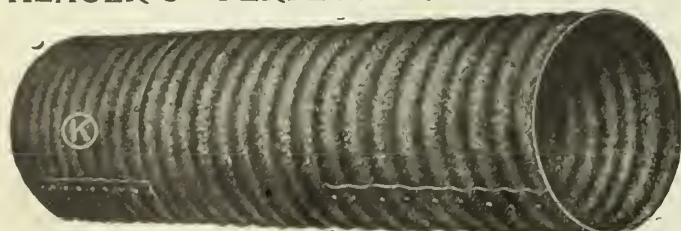
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**Mont., Anaconda**—E. P. Mathewson, manager, started work on first unit of leaching plant, Dashoe smelter; capacity 2,000 tons; \$1,250,000.

**Mont., Butte**—Dry house Anaconda mine burned; 500 lockers, probably steel, when rebuilt.

**N. D., Kensal**—Dam may be built across lower point Lake Arrowwood; address mayor.

**Wis., Bayfield**—Site will be selected for a garbage burner; S. L. Boutin, chairman committee.

**Wyo., Cody**—President Jameson, Mountain States Oil Co., contemplates refinery here.

## Schools

*Notes arranged alphabetically by states.*

**Iowa, Ft. Dodge**—Two modern schools will be built in Hardwin township this summer; plans have been submitted to Superintendent Carey.

**Iowa, Grant**—\$19,000 school bonds voted.

**Iowa, Alton**—School at Millerville burned.

**Iowa, Jefferson Center**—Two schools will be built, district 5 and 8.

**Iowa, Leon**—Special election April 20, for school, Decatur township, Decatur county; Clarence Townsend, secretary.

**Iowa, Lone Tree**—Bids received until April 20, for school; H. C. Buell, president.

**Iowa, Madison**—Plans begun by architect, Rudolph Markgraf, Kansas City, Mo., for ward school, modern, brick, stone.

**Iowa, New Market**—Two schools districts 3 and 6, will be built.

**Iowa, Perry**—Kenneth Maine & Sons have contract for school at Newton; cost \$25,000.

**Iowa, Randallia**—A 2-story brick, 48x75, and basement school will be built here, steam heat, modern.

**Iowa, Riceville**—A \$15,000 addition to high school will be built.

**Iowa, Sellsburg**—\$2,500 bonds voted for remodeling school, A. K. Rife, director; D. K. Johnson, treasurer.

**Iowa, Wyoming**—Town may build \$35,000 school, election probable soon.

**Man., Norway House**—An Indian school will be erected here by Rev. Father Lecoq; cost, \$60,000.

**Mich., Stambaugh**—Bids received until 8 p. m., April 21, for construction and furnishing all material, for Caspian grade school, at Caspian, Mich., except heating, plumbing and electric wiring; plans by architects, Smith & Anderson, of Iron Mountain and Iron River, Mich., plans at office of Lafayette McQuown, secretary, board of education; also at office of architects, 221 E. Ludington st., Iron Mountain; check \$500; address secretary.

**Minn., Delavan**—One-room frame; clerk, Wm. W. Hart, Delavan, Minn.; plans approved by state commissioner.

**Minn., Laporte**—Add. consolidated school E. F. Broomhall, architect, Duluth; clerk, E. B. Scott, Laporte; plans approved by state commissioner.

**Minn., Melrose**—High school burned; loss \$30,000; insured, \$18,000; will rebuild.

**Minn., Montgomery**—A new school will be built here, \$1,600 bonds voted.

**Minn., Northfield**—Plans are discussed for improvements in the college to cost about \$825,000.

**Minn., Pequot**—Consolidated school, E. F. Broomhall, architect, Duluth; clerk, J. P. Bakken, Pequot; plans approved by state commissioner.

**Minn., Richmond**—One-room frame basement; clerk, Frank Rothstein, R. R. No. 2; plans approved by state commissioner.

**Minn., Soudan**—Bids have been called for construction of new addition to school Bray & Nystrom, Duluth, architects; plans in hands of board.

**Minn., St. James**—Addition to high school will be built during summer.

**Minn., Worthington**—One-room, frame; plans by F. J. Leistikow, Worthington; clerk, W. E. Berre, Worthington; plans approved, state commissioner.

**Mont., Billings**—Following bids received for fire escapes Billings schools. Gagnon Construction Co., Billings, \$2,450; Calrd Engineering Works, Helena, \$1,984; Billings Foundry & Manufacturing Co., \$3,820; Butte Ornamental Iron Works, \$3,627.

**Mont., Culbertson**—School will be built, Cherry Creek district; Charles Hackley, director.

**Mont., Hamilton**—Contract awarded to contractors Olson & Johnson of Missoula for addition to Jefferson school building, at \$14,900.

**Neb., Battle Creek**—A \$12,000 addition will be built to the school here.

**Neb., Craig**—School district No. 27 is contemplating erection of a school house.

**Neb., Wayne**—A new school district to be known as district No. 35, organized and will build a modern school building this season.

**N. D., Ardoch**—\$5,800 bonds voted; plans for school accepted; bids at once.

**N. D., New Rockford**—A 1-story frame school will be built here, 28x42, C. F. Culp, clerk; Haxby & Gillespie, architects; no date set.

**S. D., Flandreau**—Vote for \$40,000 school carried.

**S. D., Wilmot**—A school house will be built here soon.

**Wis., Kewaunee**—Bids on school rejected, new bids will be advertised.

**Wis., Menomonie**—Plans prepared, \$200,000 domestic science building, Stout Institute; J. H. Chubb, architect, contracts soon.

**Wis., Milwaukee**—A private school will be built by Lee Wells Myllard, 28x80, 2-story.

**Wis., Milwaukee**—Emmanuel Lutheran congregation will erect a school, \$35,000.

**Wis., Milwaukee**—A \$7,000 school will be built in district No. 6, solid brick, and stone, concrete flooring, 2-story, 26x51.

**Wis., Mountain**—Town of Armstrong voted for Union school here.

**Wyo., Sheridan**—Plans completed for parochial school; bids will be asked at once; cost \$10,000.

**Wis., Superior**—Fire destroyed the state normal school; loss \$200,000.

**Wyo., Wheatland**—Leon C. Goodrich will prepare plans for \$38,000 high school.

### BIDS WANTED.

**Iowa, Albert City**—Vote for school carried.

**Iowa, Burlington**—Bids received until April 21, 2 p. m., for two grade schools; plans at office of D. S. Cooper, secretary, board of education; check for 5 per cent.

**Iowa, Charitan**—Bids received until April 18, noon, for a school in district No. 2, Whitebreast township, Lucas county, I. N. Palliam, secretary.

**Iowa, Orange City**—Bids received April 18, 1 p. m., school Nassau, township, Sioux county; Joe Rexwinkel, secretary; plans with secretary.

**Iowa, Winterset**—Bids received until 1 p. m., April 25, for erection of school building in district No. 5, Madison county; A. B. Gray, secretary, East Peru, Iowa, (not a postoffice).

**Mont., Smith**—Bids received until April 15, for painting a school building, 18x24, also one coal shed, 10x16, district No. 78; Andrew Thorson, clerk.

**N. D., Bismarck**—Bids received April 14, for a school; check for 5 per cent; Emma A. Falkenstein, clerk.

**N. D., Clyde**—Bids received until April 21, 2 p. m., for building a Centralized school building, Cavalier county; check \$500; R. F. Kargel, clerk, A. B. Thiesen, president.

**N. D., Minot**—Bids received for school building were: plumbing to Minot Plumbing & Heating Co., at \$3,390; Heating to Moorhead Heating & Plumbing Co., at \$2,880; ventilating system to Oliver Bros. and Uleburg, at \$2,192, heat regulating to Johnson Service Co., at \$995; total cost \$9,457.

**S. D., Vermillion**—Bids received by J. H. Julian, secretary state university, 9 a. m., April 22, for a chemistry building; check 2 per cent; officially advertised in this issue of Improvement Bulletin.

**Wis., Barron**—Bids received until April 10, 7 p. m., for building a school house, district No. 4, Maple Grove and Arland; plans with E. A. Wesslen, at Hillsdale or at Fred Hoxie's residence, Barron, Wis.

**Wis., Sheboygan**—Bids received until noon, April 10, for erection of school house in joint district No. 20, towns of Plymouth and Sheboygan, H. C. Dornbush, superintendent; Wm. Johanning, clerk.

### CONTRACTS AWARDED.

**Iowa, Superior**—Contract awarded to Schlichter & Son, Rockwell City, Iowa, for \$30,000 school, modern, pressed brick, general contract \$25,175; heating, plumbing, ventilating let March 31.

**Minn., Minnetota**—Contract awarded to M. D. Johnson, Minnetota, for erection of 1-room school house, at \$1,100; other bid was: P. J. Jokul, Minnetota, at \$1,400.

**Neb., Spalding**—Contract awarded to Mr. Rooney of Grand Island, for construction of a gymnasium for the college, 112x52, modern.

**N. D., Baker**—Contract awarded to E. O. Timeberg, Baker, for consolidated school at \$5,310. A. W. Gylmquist, Leeds, N. D., \$5,250; Kvalheim & Skram, Maddock, N. D., \$6,050; A. Jacobson, Knox, N. D., \$5,600; Arthur Van Horn, Bismarck, N. D., architect.

**N. D., Noonan**—Contract to Heath & Bird of Wildrose, at \$7,700 for new school.

**Wis., River Falls**—Contract to Emil Sedlackek, Superior, for normal school, American Heating Co., heating, \$7,000; foundation completed.

## Churches

*Notes arranged alphabetically by states.*

**Iowa, Akron**—German Lutheran church will be built.

**Iowa, Fort Dodge**—Plans for First M. E. church, have arrived; estimated cost \$85,000.

**Iowa, Menlo**—A modern M. E. church is being erected here; Rev. M. Stahl, pastor.

**Iowa, Monona**—A \$20,000 M. E. church is in process of erection; plans also are being made for a \$40,000 Catholic church.

**Iowa, Rowan**—M. E. church burned will be rebuilt; Rev. Hammer, pastor.

**Iowa, Sibley**—Baptists raising funds for \$6,000 church.

**Minn., Hayfield**—West St. Olaf church in Vernon will undergo extensive improvements this summer.

**Minn., Mankato**—Parish of St. Peter and St. Paul's plan extensive improvements to church and college; cost about \$50,000.

**Minn., Mapleton**—Baptist church started at Medo, not (P. O.).

**Minn., Marshall**—Work begun on Catholic church; E. L. Masqueray, architect, 535 Endicott building, St. Paul, \$75,000; A. Volk, secretary; Rev. H. R. Jordan, pastor.

**Minn., Plainview**—German Lutherans are planning to erect a \$25,000 church.

**Minn., Worthington**—Swedish Mission here are planning to build a new church.

**Mont., Helena**—Interior work St. Helena's Cathedral will be started next month; Rev. John P. Carroll, bishop; A. O. Von Herbulis, architects.

**Neb., Omaha**—Bishop Koudelka plans soon to start construction of a Cathedral.

**N. D., Edgeley**—Plans are being prepared by architect Geo. F. Fossum, for a church, to be built by the Wesley M. E. church; cost \$18,000; Gothic style, 50x92, brick and stone, semi-fireproof, fieldstone foundation, walls and superstructure of red smooth faced brick, Bedford stone trim.

**S. D., Huron**—Church to be built here; cost about \$40,000; Rev. E. H. Grant, pastor.

**S. D., Isabel**—News received from the office of the Congregational Building society of New York that \$1,000 has been appropriated for construction of a congregational church here.

**Wis., Gilmanton**—A new church will be built near Lookout this summer to replace one burned in 1912.

**Wis., Ladysmith**—Plans for new building to be erected by Church of Christ, accepted.

**Wis., Madison**—Interdenominational church will be built at the University of Wisconsin.

**Wis., Thorp**—Modern Catholic church will be built this summer, Rev. Father Neises, pastor.

### BIDS WANTED.

**Iowa, Cedar Rapids**—Bids on new Immaculate Conception church will be opened April 6.

**Iowa, Greene**—Bids received until April 20, noon, for a church building, Evangelical Lutheran congregation; check 5 per cent; A. B. Mahnke, secretary.

**Minn., Chaska**—Bids April 15, German Evangelical Lutheran church, hollow tile brick, 38x64; plans with Rev. Geo. A. Schald, pastor.

**N. D., Wishek**—The German Evangelical Lutheran church will receive bids April 3, for enlarging their church with full basement; Rev. John Williams, pastor, Wishek, N. D., P. O. box 23.

### CONTRACTS AWARDED.

**Iowa, Lone Tree**—Contract to W. W. Wolery of Washington, at \$8,133, for St. Mary's church, \$12,000.

**Iowa, Ridgeway**—Contract awarded to John



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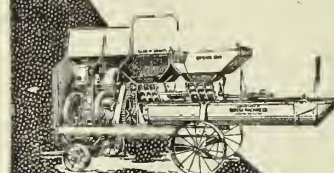
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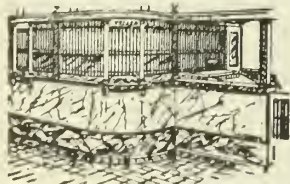
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**Skoolheim, Willmar, and C. T. Trytten,** Ridgeway, Iowa, for a brick church building; other bids were: O. Olson, Minneapolis, Minn., Victorson, Minneapolis; J. E. Nason, architect.

**Iowa, Terrill**—M. E. church will be built; A. C. Brown, contractor.

**N. D., Berlin**—Contract awarded to W. H. McPherson of Oakes, N. D., for a frame church building for Catholics; 32x60, to be completed July 1, 1914.

**S. D., DeSmet**—P. A. Ackerman of Arlington, has secured contract for the erection of St. Mathes Evangelical Lutheran church, to be built on Aug. Gehm's farm; work to commence soon.

**Wis., Oshkosh**—Contract awarded to John Blachinsky, of Green Bay for construction of St. Vincent's church and parsonage.

**Wis., Oshkosh**—General contract awarded to John Blachinsky, Green Bay, Wis., for church and parsonage for St. Vincent De Paul's congregation, at \$62,000, exclusive of heating, lighting and plumbing; Foeller & Schober, Green Bay, architects.

## Elevators

*Notes arranged alphabetically by states.*

**Iowa, Denison**—The meeting of the farmers to discuss the new elevator question last week was not satisfactory because of small attendance, another meeting will be called.

**Iowa, Wellsburg**—The grain elevator at Wellsburg recently destroyed by fire with loss of \$10,000 will be rebuilt.

**Man., Winnipeg**—The government of Canada has set aside \$5,500,000 for building interior grain elevators, at Saskatoon, Moose Jaw, and Calgary, a transfer elevator at Vancouver, B. C., and an elevator on Hudson Bay, Saskatoon and Moose Jaw, to be built this season.

**Minn., Ada**—Farmers' Elevator Co. will make extensive improvements to their elevator here.

**Minn., St. Cloud**—A potato warehouse will be built here.

**Minn., St. Paul**—Equity Leaders have begun a movement to procure the location by the state of a terminal elevator in St. Paul, \$40,000 being available for the purpose; address secretary.

**Mont., Geyser**—A large elevator will be built in place of one recently burned.

**Neb., Lincoln**—Members of the Farmers' Union near Lawrence are laying plans to erect a co-operative elevator at that place.

**Neb., Yutan**—The Farmers' Union is agitating erection of a new elevator.

**N. D., Fargo**—Grain elevators are to be established at Alexander, Arbogard, Wafford, Klotten and Willow City.

**N. D., Minnor**—The Farmers' Equity Elevator Co. at Hoving have let contract for erection of an elevator and coal sheds.

**N. D., McVillie**—Elevators of the Winter-Ames Co. and Farmers Elevator Co., burned; loss about \$100,000.

**S. D., De Smet**—The Farmers' Co-operative association is contemplating erection of an elevator.

### CONTRACTS AWARDED.

**Iowa, Halbur**—The contract for erection of a new elevator was let to a Des Moines firm.

## Mills and Factories

*Notes arranged alphabetically by states.*

**Alta., Edmonton**—N. B. Wilson states his company will erect a branch factory here.

**Alta., Edmonton**—W. E. Channel and C. Mutton will probably erect a rendering factory here.

**Iowa, New Hampton**—The directors of the Lawler Creamery are asking for bids on new brick building and smoke stock complete; address P. J. Cooney, secretary.

**Iowa, New Vienna**—Louis Bishop & Son are drilling a well for the New Vienna Creamery Co., which company will erect a modern building soon.

**Minn., Albert Lea**—Albert Lea Milling Co. are planning to enlarge their mill.

**Minn., Redwood Falls**—Fire destroyed the flour mill at Wabasso, valued at \$20,000.

**Minn., Rice**—Bids were received Saturday for letting contract for the creamery here.

**Minn., Rochester**—The Rochester Gas Co. will make extensive improvements to its plant.

**Minn., Winona**—The laboratory of the Bay State Milling Co. will be doubled in size this summer; contract let and work commenced; the new flour storage warehouse, 40x175 is also being built.

**Mont., Harlem**—A flour mill is being talked of for this place; Thos. M. Everett and E. M. Kennedy, interested.

**Mont., Judith Gap**—A company has been formed here for purpose of erecting a cheese factory and construction work will begin soon; P. J. Murphy, J. A. Herron and others directors.

**Mont., Judith Gap**—A new cheese factory will be erected here; M. R. Yarnell, J. A. Herron, P. J. Murphy, committee.

**Mont., Lewiston**—The Chamber of Commerce here is taking steps toward securing a creamery; address secretary of the club.

**Mont., Livingston**—A local creamery with a cold storage plant is an assured fact, Norman S. Poole, of Townsend, interested and will take steps at once for its installation.

**S. D., Aberdeen**—E. W. Shadwald will erect a new flouring mill at Toronto.

**S. D., Rapid City**—The Lanphiere-Hinrichs Lumber Co. will rebuild their mill, concrete, capital increased from \$150,000 to \$250,000.

**Wis., Ashland**—The tannery at Mellen was burned.

**Wis., Bloomer**—Libby, McNeil & Libby have agreed to erect a pickling salting station in Bloomer provided 150 acres be subscribed on one year contracts.

**Wis., Boyd**—Emil H. Peters will build a cheese factory, 2-story, frame, prepared roofing, steam heat, architect and contractor, Hy. Dahlke, machinery partly bought, will install 15 h. p., return feed boiler and cheese making machinery.

**Wis., Fall River**—Geo. S. Lashier, has sold water power and site of burned mill to Jul. Frederick, Columbus, Wis., new owner will rebuild; lighting plant property of A. E. Knaak.

**Wis., Green Bay**—Frank Kress, 419 N. Van Buren st., will build a factory, (horse collar), 2-story, 65x108; cost \$7,000; general contract let to Geo. H. Zukowsky; P. T. Benton, architect, Minahan building.

**Wis., Kaukauna**—\$50,000 improvements will begin soon on the paper mills here of the Union Bag & Paper Co.

**Wis., Manitowoc**—Work will begin next week on the Wm. Rahr Sons Co.'s plant; Paul Reisen Co., contractors, 250x250; concrete, 7-story, modern.

**Wis., Milwaukee**—A 1-story, 90x120 factory, will be erected by Milwaukee Grinders & Specialties Co., 62 Mason st., work started; contracts let; Klug & Smith, architects, 40 Mack building.

**Wis., Taylor**—A creamery building, 24x40, will be built by Riverhead Dairy Co., Theo. Artabasy, R. 4, Thorp, secretary; bids close April 4, 2 p. m., plans with secretary and Geo. Burke, Thorp, Wis.

### BIDS WANTED.

**Mont., Culbertson**—Bids received until Apr. 18, by Culbertson Creamery & Provision Co., for erection of a creamery; check for \$25; plans with W. Mathews of this city; F. E. Wedge, secretary.

### CONTRACTS AWARDED.

**Wis., La Crosse**—Contract awarded to C. W. Noble, McMillan building, La Crosse, for 1-story, 60x152, brick, 15-inch beams and 8-inch columns, to strengthen floors, Badger Steel Rfg. & Corrugating Co., 216 S. 2d st., owners, will apply metal roof and install fireproof windows; completed in May.

## Electrical

*Notes arranged alphabetically by states.*

**Iowa, Cedar Falls**—Residents of College Hill have started a movement for electroliners in that part of town.

**Iowa, Missouri Valley**—Engine and dynamo at light plant destroyed by explosion.

**Iowa, Northwood**—Secretary Sabin, Northwood Telephone Co. is calling for bids for construction of telephone building, 24x30, 1-story; plans by Architect Lockhart, St. Paul.

**Iowa, Shellsburg**—F. J. Cross, representing Iowa Light & Power Co., Cedar Rapids, has asked for an electric light franchise; the project as planned would be a loop from Center Point by way of Shellsburg, Palo, Covington. A vote will be taken on same April 26.

**Minn., Clara City**—Montevideo Light & Power Co. will build a line here from Sacred Heart and furnish power from Minnesota Falls.

**Minn., Mankato**—Mankato Electric Traction Co., may extend lines to fair grounds.

**Minn., Minneapolis**—Street railway company started work on crosstown line over 20th av. N. to 13th av. NE; extensions to be built, Oak st. and Cedar lines.

**Minn., Truman**—Meeting held to discuss electric lights, and majority favored a municipal; cost \$4,000.

**Minn., Waconia**—The Norwood-Young America Telephone was granted a franchise; Chas. A. Reilm, village recorder.

**Minn., Winona**—White Way committee asked permission for system in 10 blocks; contract will soon be signed with Wisconsin Railway, Light & Power Co., estimated cost \$8,100.

**Minn., Zumbro Falls**—Business men of this place have started a movement for electric lights and a dam will probably be built across the Zumbro river.

**Wis., Elmwood**—Guy Gardner has contract to build five miles of road between Eau Claire and Altoona for the Chippewa Valley Railway & Light Co.

**Wis., Falls River**—Julius Frederick will rebuild the mill and power plant recently burned.

**Wis., Madison**—Ornamental street lighting system proposed by alderman Frank Alfred was endorsed by council; engineer will be engaged to make plans.

**Wis., Prairie Farm**—Louis Larson may form company to install electric light plant here, estimated cost \$2,300.

**Wis., Sheboygan**—Railroad commission refused permission to the city to erect a municipal light plant.

**Wis., Westboro**—Westboro Telephone Co. will increase their capital stock to \$25,000 to make extensions.

### BIDS WANTED.

**Mont., Eureka**—H. G. Pomeroy, will receive bids till 8 p. m., April 6, for furnishing and installing 14 electroliners on Dewey av.

### CONTRACTS AWARDED.

**Minn., Alexandria**—Contract white way lighting system let to Western Electric Co., Minneapolis.

**N. D., Ellendale**—Burnett & Nibbe, Lidgerwood, were awarded contract for construction of a municipal building here; work to begin May 1.

**Wis., Luck**—Contract for power house let to L. Helgeson, Luck.

## Garages and Barns

*Notes arranged alphabetically by states.*

**Minn., Hutchinson**—Work will soon start on a model dairy barn, 36x70, for J. M. Bell, brick and hollow clay blocks, contract let to M. C. Madsen.

**Minn., New Richland**—Work of remodeling the old National Hotel building into a garage, has begun, for use of J. A. Tyrholm & Co.

**Minn., Park Rapids**—W. A. Burnett is building a large modern barn.

**Minn., Sleepy Eye**—S. A. Wooldrik will soon commence work on a modern garage.

**Minn., St. Cloud**—Hugo Grundman has commenced work on new garage.

**Minn., St. Paul**—Barn of M. E. Horrigan, partially burned.

**Minn., Verndale**—Reid & Waterhouse have commenced work on their garage.

**Minn., Warren**—R. M. Gilbert has commenced construction of a fireproof addition to his garage.

**Minn., Winsted**—Louis Bloomquist will build a modern barn.

**Mont., Valler**—W. L. Campbell has let contract to Carpenter Tingleaf, for erection of garage.

**Neb., Fremont**—J. C. Wieser will build a modern garage.

**Wis., Waukesha**—A large modern stock barn will be erected at Bairdland; cost about \$15,000; 176x44, ventilating, electric lights, cement floors, drainage, running water, detached milk house; contracts for construction have all been let; lumber and millwork to Wilbur Co., mason work to Fred Krumhaus, cement, (carload), H. L. Giltner, carpenter work to M. Narks, of Elm Grove;



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#### CONTRACTS AWARDED.

**Iowa, Davenport**—Contract awarded to Jno. Soller & Son, for construction of a garage for R. H. Harned, Temple & Burrows, architects.

**Minn., Windom**—Bids were opened for the Pope garage, and contract awarded to J. B. Nelson of Mankato.

**Wis., Cuba City**—Contract for 70x36 barn for John Johns let to Elsworth Brown.

to this city; has secured options on real estate here to build tracks and depot.

**Mont., Miles City**—Milwaukee road will bridge all creeks from here to Marmouth with new concrete structures, replacing wood.

**Tex., San Antonio**—Missouri, Kansas & Texas Railway Co. has decided to begin projected \$1,000,000 passenger station and terminal system in this city immediately.

**Wis., Tigerton**—Northwestern will build improved station here at once.

Enterprise burned loss \$10,000; dry goods stock of M. L. Christianson, valued at \$50,000, total loss.

**Iowa, Sioux City**—Fire destroyed Moore store, \$75,000, insured; Anderson Furniture Co., \$75,000; Thiele-Sharp Co., \$20,000; Central Bank, \$8,000; Holman store, \$1,000; E. B. Small store, \$2,000; Geo. A. Ford, \$8,000; Orcutt building, \$1,500; Brown building, \$30,000, insured \$20,000; Magoun building, \$40,000; Bolton building, \$40,000; total loss \$303,500; insured.

**Iowa, Sioux City**—John A. Magoun, Jr., will erect a modern block; Jonathan W. Brown plans 5-story building.

**Iowa, Tabor**—Fire damaged the store of John Barbour, about \$1,500.

**Iowa, Waterloo**—Work started on modern business block, for Wm. H. Pedicord, 21x70, 2-story, white enamel brick front, red brick.

**Minn., Albert Lea**—L. O. Greene, city, will build a brick building; cost \$15,000, to be known as Builders' Exchange.

**Minn., Breckenridge**—First National Bank will remodel; Haxby & Gillespie, architects, Fargo, N. D., no date set for letting.

**Minn., Campbell**—Campbell Mercantile Co. will build a 1-story store building, brick, 33x95, Haxby & Gillespie, architects; no date set.

**Minn., Cannon Falls**—Permit issued to A. H. Kiant for erection of a cement block building.

**Minn., Crookston**—Work started by contractors C. Eichoff & Sons, on Polk County State Bank building and the L. W. Larson building.

**Minn., Ellendale**—A. M. Lerberg let contract to Nelson & Thompson of Albert Lea, for a new store building, work to commence June 1, brick, 1-story, 25x100.

**Minn., Fairmont**—F. E. Wade let contract for steel to be used in Fairmont Machine Co. building, 80x300; estimated cost \$35,000.

**Minn., Hutchinson**—Thompson Bros. will build addition to their implement building, 30x84, 1-story, frame.

**Mont., Havre**—Havre Electric Co. will erect office building, modern; Havre Trading Co., brick building, cost \$8,000; Lindsey Brokerage Co., modern building, 90x160; addition

## Parks and Cemeteries

*Notes arranged alphabetically by states.*

**Minn., Mankato**—Bids received until April 4, 8:30, for a concrete and frame pavilion, to be erected at the State Park at Minneopa, Minn., architect Albert Schippel, Mankato, Minn., takes bids; Thomas Hughes, chairman of committee.

**Mont., Hingham**—A piece of ground, 60x300 feet has been set aside for another park, ground will be broken soon.

**Neb., Omaha**—Repairs will be made on the swimming pool in Spring Lake park, other improvements.

## Railroads

*Notes arranged alphabetically by states.*

**Mont., Great Falls**—Capital of Great Falls & Teton road doubled to \$1,000,000.

**Mont., Hardin**—The Big Horn Canyon Irrigation & Power Co. will contract about July 1, for 70 miles of railroad, mouth of Big Horn Canyon north via St. Xavier and this place, to Custer on N. P.; steel bridge over Big Horn river about 600 feet long; John J. Harris, president; Edward Lawlor, secretary; A. W. F. Koch, chief engineer, all of Hardin, Montana.

**Mont., Helena**—Milwaukee road will build

## Business Buildings

*Notes arranged alphabetically by states.*

*Items marked with asterisk not in daily sheets.*

**Alta., Calgary**—New Bank of Alberta will build; cost \$200,000.

**Alta., Edmonton**—George Pearson, Warwick, England, plans to build a 10-story office building here.

**Iowa, Albia**—Lewis Bros.' Store at Excelsior (not P. O.) burned.

**Iowa, Bloomfield**—Kincade & Lewis will rebuild store, 1-story.

**Iowa, Chariton**—Eric Johnson will erect a brick business building.

**Iowa, Chariton**—James Carnahan and Geo. F. Carpenter plan 2-story double brick block.

**Iowa, Council Bluffs**—Plans are being prepared by an architect, for a 2-story store building for Leonard Everett; brick, modern.

**Iowa, Council Bluffs**—Woolworth's 5 and 10 cent store plan to enlarge their store; B. A. Price, local manager.

**Iowa, Davenport**—Permit issued to the Standard Oil Co., for erection of a \$16,000 boiler house at Case and Federal sts., J. Soller & Sons, contractors.

**Iowa, Eldora**—A business building will be erected by Carl S. Newcomer.

**Iowa, Estherville**—Fire destroyed the entire block of business buildings; loss about \$150,000; newspaper plant of the Estherville

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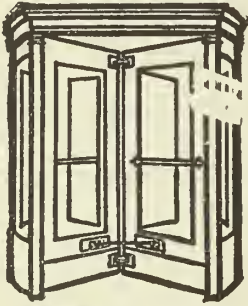
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to Bank saloon; W. E. Wiltner will build a brick building; addition to Havre Commercial Co., building; office building on Broadway; Mr. Blashfield will erect a modern building; further information address architect, F. F. Bossout, Havre, Mont.

**Mont., Ismay**—Albert Whitfield and Lee Goodrich plan a 2-story cement block building, 48x75.

**Neb., Ainsworth**—The Commercial Bank will build a new building, brick, 50x25; J. B. Finney will build a modern business building, work to begin April 1.

**\*N. D., Tower City**—C. E. Bell, architect, Minneapolis, is preparing plans for a bank building for the First National Bank; 1-story, fireproof, brick, stone, skylight, granite columns, vault, fixtures, tile floors, plumbing, heating, wiring. Figures will be taken by bank and architect.

**Ont., Ft. William**—Fire destroyed Hudson Bay store here; loss \$200,000.

**Sask., Harris**—Fire destroyed Goose Lake Grain & Lumber Co.'s building, may be rebuilt.

**Sask., Saskatoon**—Work will commence soon on building of the Nova Scotia Bank, contract let to Bigelow Bros., Thompson & Cochart, architects.

**S. D., Aberdeen**—McDiarmid & Slater Grocery Co., enlarging their bakery.

**S. D., Columbia**—Thomas Tollefson plans 2-story fireproof building soon.

**S. D., Hartford**—Hahn & Duncan, Humboldt, let contract for a \$20,000 brick building.

**S. D., Rapid City**—Harry Wentzy and Jas. Hartgering, at Fairburn, organized Ranchman's State Bank of Fairburn; capital stock placed and site purchased; new building to start April 1.

**S. D., Rapid City**—Thomas Sweeney let contract to Garland & Ryther, repairs and addition to his building.

**S. D., Watertown**—Remodeling granite block, Security National Bank started.

**Wis., Ashland**—Store of the Rust-Owen Co. at Drummond burned.

**Wis., Augusta**—Contract awarded to W. E. Johnson and Paul Wenzel Co., for erection of grain bank building at Allen.

**Wis., Beaver Dam**—Work started on Bries & Hellmann store.

**Wis., Drummond**—Fire destroyed store Rust-Owen Lumber Co.

**Wis., Ellsworth**—Geo. Theo. Smith will erect a strictly modern store for Stewart Mercantile Co.

**Wis., Grand View**—Drummond store and office building burned; loss \$50,000.

**Wis., Hillsdale**—Fire destroyed Hillsdale mercantile store the exchange of the Hillsdale Western Telephone Co., store of George Smart, dwelling of E. E. Goff; loss \$30,000.

**Wis., La Crosse**—Fire damaged billiard hall of Chas. Dowler, about \$1,000; insured.

**Wis., Lampson**—E. E. Smith will build a store, 24x40, full basement.

**Wis., Milwaukee**—An \$18,000 store building will be erected by Vincent Strzempkowski, 2-story, 45x85, brick.

**Wis., Milwaukee**—A store and apartment building will be built by M. Frank; brick, 2-story, 24x60, cost \$6,500.

**Wyo., Sheridan**—Plans completed, Sheridan National Bank, pressed brick with terra cotta trim, 2-story.

#### BIDS WANTED.

**\*Iowa, Fonda**—Bids received by Mrs. Albert Smith, owner, 1 p. m., April 11, for 2-story brick building, 50x80; officially advertised in this issue of Improvement Bulletin.

**\*Minn., Comfrey**—Bids received by Farmers' State Bank, until 1:30 p. m., April 15, for a 2-story, brick; check for 10 per cent. Officially advertised in this issue of the Improvement Bulletin.

**Mont., Anaconda**—Bids wanted, 2-story brick and concrete building; Joseph Smith, architect, 114 W. 3d, or Wm. Wiess, 315 E. Commercial, Anaconda.

**\*N. D., Grand Forks**—Bids received by board of directors Scandinavian American Bank and Northwestern Trust Co., noon, April 29, for a bank, store and office building; check for 5 per cent; officially advertised in this issue of Improvement Bulletin.

#### CONTRACTS AWARDED.

**Iowa, Algona**—Contract awarded for new business building to be erected by J. W.

Haggard and A. L. Peterson; work will commence soon.

**Iowa, Monona**—Contract has been let for new bank for State Bank of Monona; cost, \$15,000.

**Minn., Darwin**—Contract awarded to H. E. Swanson, for new bank building, 24x40; 1-story, cement block, modern.

**Minn., Detroit**—Contract to Ed. C. Dahl and P. J. Bjerke, remodeling Security Bank building, \$5,000.

**Minn., Graston**—Contractor Julius Sundboom will erect business building, 24x40, for Elov Nygren.

**Minn., Mankato**—Anderson & Will, contractors, have contract for a 2-story stone building at Lakefield, Minn., for Wm. Miller; \$8,000.

**Minn., St. Cloud**—Contract awarded to Edward Hirt for construction of new building for C. F. Ladner at \$10,962; other bids were: Carl Kropp, \$11,374; Ed. Wahl, \$11,919; Steve Schwartz, \$11,947; A. G. Wahl, \$13,180; N. A. Helman, \$13,695. Plans prepared by Architect R. C. Buckley.

**Neb., Grand Island**—J. D. Martin has plans for a new business building, 2-story; cost \$50,000.

**N. D., Grafton**—Work will commence April 1 on Scandinavian-American Bank.

**N. D., Grand Forks**—Another business block will be built here this summer by Joseph Mahowald; frontage, 76x92, modern.

**N. D., Harvey**—Fire destroyed the department store of Julius Sgutt; loss \$75,000; insured \$10,000.

**N. D., Grand Forks**—Joseph Mahowald will begin fireproof brick building soon; cost \$20,000; 76-foot front, full basement.

**N. D., Mandan**—General stores of Engle & Co., and H. H. Ekeland at Regent, burned; loss \$30,000.

**N. D., Rutland**—O'Berg general store, Miller hardware store and Rutland bowling alleys burned; loss \$25,000; insured, \$6,000.

**S. D., Flandreau**—Contract for the new postoffice building let to H. W. Adron, at \$2,500, brick, 25x60.

**S. D., Flandreau**—Contract with A. C. Johnson, Stillwater, Minn., for wiring the court house.

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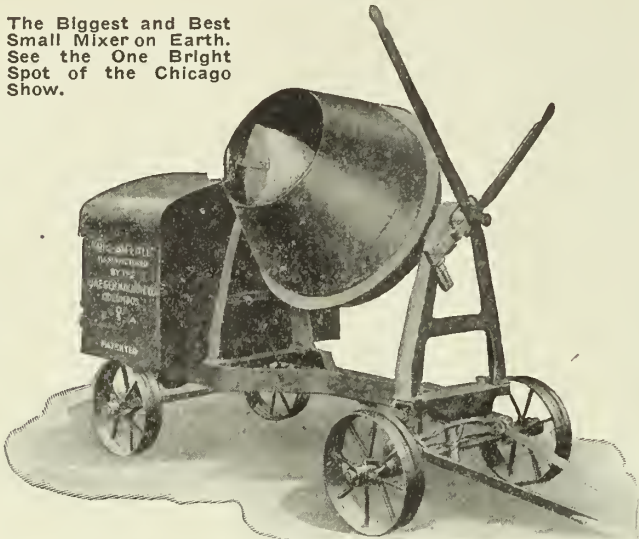
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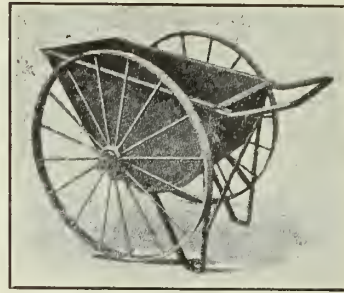
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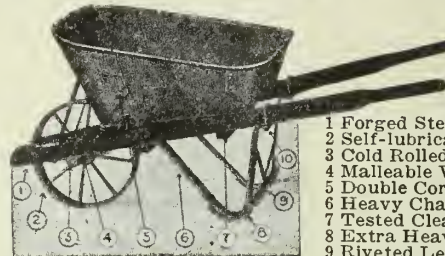


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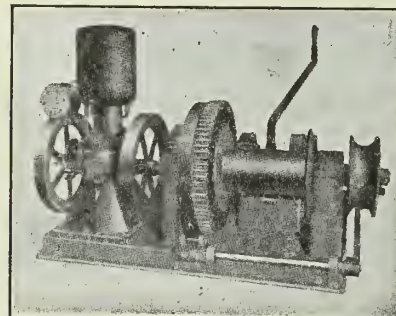
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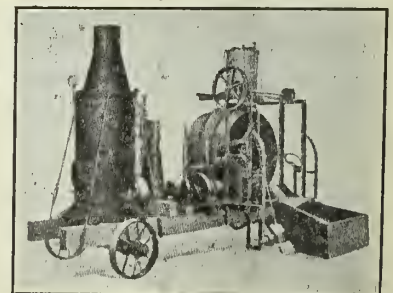
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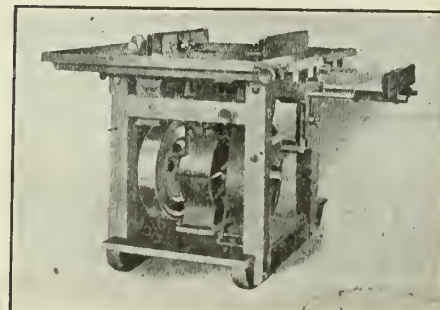
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## Residences

Notes arranged alphabetically by states.

**Alta., Calgary**—Plans are under way for erection of a large brick and stone residence for Dr. N. J. Lindsay; cost about \$80,000.

**Iowa, Council Bluffs**—Newton Bros., building 2-story, frame, \$3,600; H. Hansen, building, 1-story frame, \$2,000; G. M. Tice, 1½-story, \$3,000.

**Iowa, Council Bluffs**—Peter Peterson is erecting a 2-story 2-apartment brick flat, cost about \$4,000; permit issued to M. P. Christensen for a 1-story frame residence; cost \$1,350.

**Iowa, Davenport**—Permit to contractor Tarnier for Glen Paddoo, 1-story frame; cost \$2,000; Fred Flindt, 2-story tile, \$3,500.

**Iowa, Davenport**—Six permits were issued: to Kern Bros., for A. H. Kern, a 1½-story stucco residence, cost \$2,500; Henry Powill for L. G. Roberts' 2-story frame dwelling; J. D. Kehoe for Mrs. James Leonard, 2-story frame dwelling, cost \$4,000; Wells T. Strohmeier, 1½-story stucco dwelling; cost \$2,500.

**Iowa, Davenport**—Permit issued to George Thompson for a 2-story frame dwelling, cost \$2,800.

**Iowa, Diagonal**—Dr. Ellis will build a modern dwelling.

**Iowa, Fort Dodge**—Modern house, W. C. Tyrell; plans completed, steam heat, pressure system; septic tank, fireplace.

**Iowa, Jesup**—The Methodists will build a \$3,000 parsonage.

**Iowa, Marion**—Patrick Ryan has commenced work on a modern residence.

**Iowa, Marshalltown**—C. E. Forkner will build a 6-room bungalow, cost about \$5,000; E. P. Gale is having plans for a 2-story house made; cost \$4,000.

**Iowa, Marshalltown**—Chas. Ingraham will build a modern residence; cost \$3,500.

**Iowa, Odebolt**—C. M. Herrig will build a modern residence.

**Iowa, Stanton**—Ed. Knapp will build a modern dwelling.

**Iowa, Tama**—A. J. Edholm will build, 27x33, 2-story, modern.

**Iowa, Williams**—A large modern house will be built by Hall Bros., also a modern residence for John Frayne.

**Minn., Albert Lea**—Contractor John F. Hanson, has contracts for building 5 residences for W. C. Jensen, Chris Bonnerop, Misses Anna and Emma Hansen, F. C. Larsen, Ludwig Madson.

**Minn., Fergus Falls**—St. Otto's Catholic church plans to build a new parish house.

**Minn., Lamberton**—Jacob Hoy, Mankato, will build residence for E. J. Eaton, \$7,500.

**Minn., Lamberton**—A modern residence will be erected by Erick Erickson, 28x28.

**Minn., Morgan**—Julius Grundemann plans to build a 7-room, 1½-story house.

**Minn., Northfield**—Prof. N. S. Dungay will build a dwelling.

**Minn., Pine City**—Israel Erickson has let contract to O. S. Larson of Pine City for erection of dwelling, 26x28, 2-story, modern.

**Minn., Pine Island**—Emil Krause has begun on a modern dwelling, Larock Bros., have contract.

**Mont., Butte**—Contractor Wm. Robertson has started work on a new apartment house to be erected for Hugh Carmichael, brick; \$10,000.

**Mont., Redstone**—Work will commence on rebuilding M. E. Parsonage, recently burned, 1½-story, 24x24.

**Mont., Townsend**—Judge Mathews will erect an 8-room bungalow; cost \$3,000.

**Neb., Ainsworth**—Dr. J. W. McLean building, modern. Clarkson—Contract to John Hamernik, modern parsonage, New Zion congregation. David City—N. D. Meysenburg will build modern bungalow, \$6,000. Gering—W. H. Harding will build a modern brick dwelling. Hastings—Modern residence will be built by Joe Davis. Havelock—Modern, will be built by Arthur Long, 28x42. Sioux City—Julius Litschky will build three modern cottages, 30x36. Springfield—Con-

tract John Nottleman, Springfield, for modern residence for Fred Krambeck. Kearney—Radcliffe Bros., started work, modern house for Mrs. N. I. Saxon; 24x30. Randolph—A. Thorndike began modern residence. Pierce—Lee Hicks, 1-story, 24x26, modern residence building. Peters—Frank Mischleo building, cement block house for Ernst Bequin, 30x30, 2-story. North Platte—Work on modern dwelling, M. J. Forbes begun. Franklin—John Eshleman has let contract to A. Madison, dwelling, 32x34, modern. Beatrice—Dr. J. Lewis Webb will build, \$12,000 house.

**Neb., Anselmo**—Wm. Crouch has begun erection of a residence. Aurora—Excavation has commenced on residence for J. M. Van Wormer. Ainsworth—Dr. J. W. McLaran is preparing to build a modern residence. Bruno—J. A. Preskovec has commenced erection of a modern dwelling. Clatonia—Wm. Steinmeyer is preparing to build a dwelling. Cowles—James McBride will build a residence. Doniphan—F. M. Hitche will build. David City—N. D. Meyersburg is making plans to build a dwelling. Gibbon—Allen Wiseman has let contract for a modern house. Harvard—L. F. Hunt has contracted with P. H. Hein for a dwelling. Havelock—Arthur Long has let contract for a dwelling to W. K. Graves—Hebron—W. W. Wright has started work on excavation for dwelling. Palmyra—Walter Taylor will soon commence building a new house. Neligh—Chas. Anderson will erect a modern house.

**Neb., Lincoln**—Permit issued to John M. Alexander for a \$3,000 dwelling; E. A. Baker dwelling, \$2,700; E. A. Geheke, dwelling, \$2,700.

**S. D., Aberdeen**—Permit S. Locken, 28x28, frame residence, \$3,000.

**S. D., Aberdeen**—Permit issued to Henry Wilbur, for a 2-story frame dwelling, 28x30, with wing, 28x10; cost \$5,500.

**S. D., Howard**—A \$5,000 M. E. parsonage will be built by the German Methodists.

**S. D., Vermillion**—Attorney J. E. Payne awarded contract for a residence, to Woodworth & Anderson, of this city.

**Wis., Burlington**—W. F. Rothering, Burlington has contract for a modern 2-story flat.

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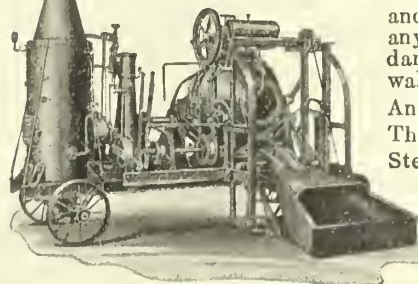
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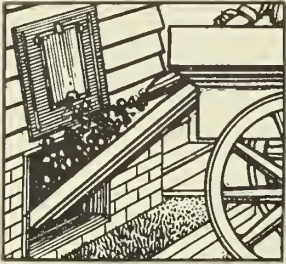
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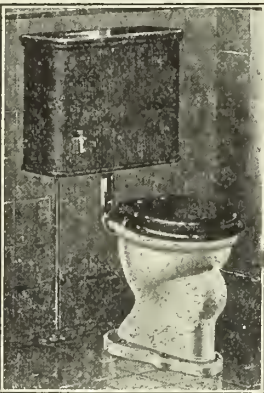
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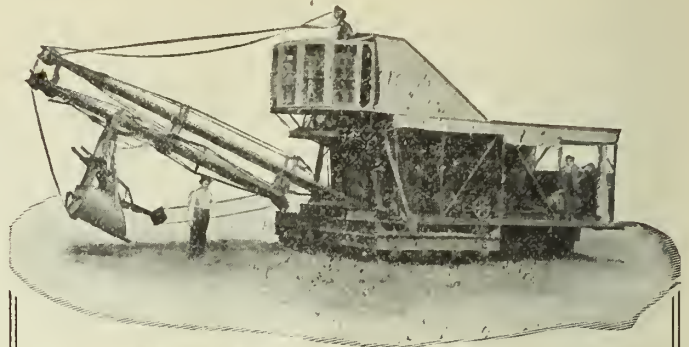
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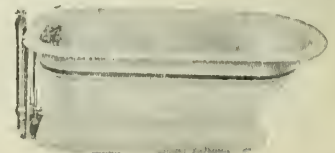


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## Municipal Improvements

### NEEDS OF CITY ARCHITECTURE.

Within a given area of a North American city there are, say, twenty buildings, each planned by a different architect "attempting desperately to make his building stand out in distinct relief above the tumult of other designs," says the Christian Science Monitor. The reason for this is held to be the fact that architecture is an art and a profession which is allowed to express itself practically without direction. No other profession, it is asserted, could be carried on in this loose-jointed way without producing chaos.

It is contended by this writer that architecture will never accomplish its principal underlying purpose of beautifying cities until each city has its architect in chief, and every ward in the city has its ward architect, who shall have complete charge of all work in his ward, "who shall be employed permanently, as long as satisfaction is given, and who shall receive a minimum living salary and five per cent upon all work he may do. It will naturally be his aim to make the ward beautiful as a whole."

Under the present system every owner and every architect is privileged, practically, to build and design to suit himself, and, as a rule buildings are erected entirely regardless of their surroundings. There is nothing to prevent the composition of an architectural medley in any quarter of any community. Such medleys exist in great number in American cities today. It is hoped to overcome the tendency toward indiscriminate style, height and cost by the organization of local committees, but it is a serious question whether very much can be accomplished along this line until the beautification of the city is in public control.

Under such a plan as that proposed, not merely a center or a quarter, but every part of a city, could be improved, co-ordinated, harmonized architecturally. The thing has been done once and only once, and then for part of a city only, and under arbitrary authority. It was done in Paris by Napoleon III., with Baron Georges Eugene Haussmann as his general director of improvements, and Paris has never ceased to profit by this accomplishment or to be grateful for it. Something of a similar nature is being done

for Washington, D. C., although in the United States national capital control is not asserted, to the same degree as by Napoleon in Paris, over private property improvement. Some day the idea of co-ordinated architecture for cities, under public control, will receive serious attention in the United States. For the present, its advocates must be content with carrying on a campaign of education.

### INCINERATOR SAVES FUEL BILLS.

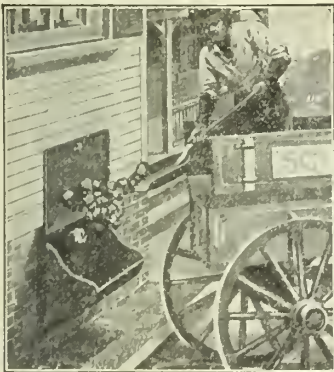
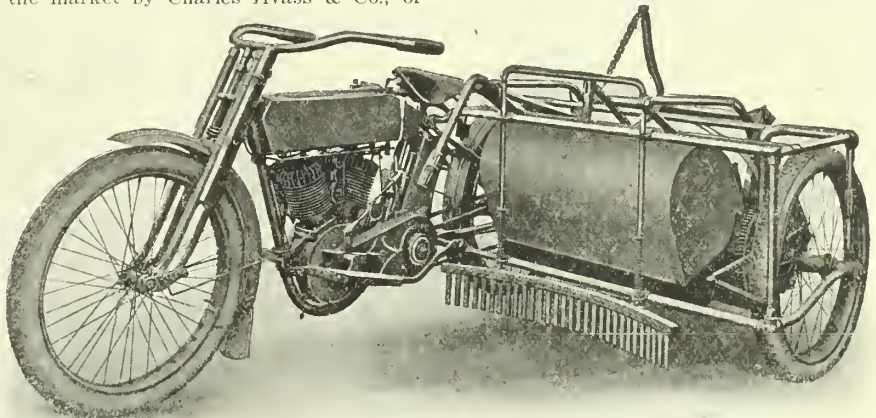
Duluth, Minn.—A combination garbage and fuel burner now in use at the county jail may demonstrate what a big saving can be made in fuel bills if garbage is disposed of in this manner. The incinerator at the county jail has been installed about a month. During the summer months when little, if any, fire is required from the main heating plant, the new device will be used to its best advantage. The patent incinerator is so arranged that all of the hot water needed for the use of the institution may be supplied from a tank attached to it.

### STREET CLEANING WITH MOTOR-CYCLE.

A pick-up sweeping device affixed to the rear axle of a motorcycle has been placed on the market by Charles Hvass & Co., of

511 E. 18th st., New York, says Engineering Record. The cycle is a two-speed, latest-type machine with foot rests which operate all controls except the spark and gas. When the device was first experimented with a standard motorcycle was used, but in its present form the frame has been lengthened, the size of the chain has been increased and the steps have been lowered. At the left of the rear wheel is attached the sweeper, which is similar to the hand-operated pick-up. When sweeping, the broom, which is about three feet long, and the metal receiving hood, whose capacity is about three-quarter cubic foot, are close to the pavement, so that the dust nuisance is minimized. In front of the broom is a concave comb, which serves to loosen stubborn refuse, drawing it toward the center, where the broom picks it up. The broom is driven by the rear axle of the motorcycle. When full, the hood is dumped by a hand lever.

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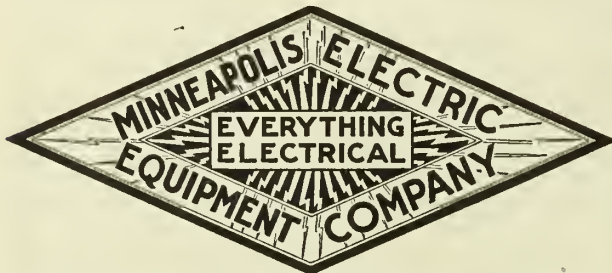
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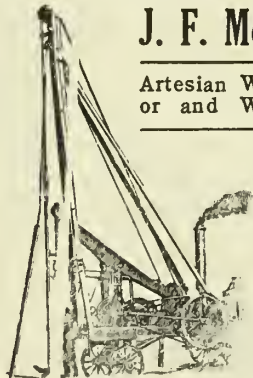
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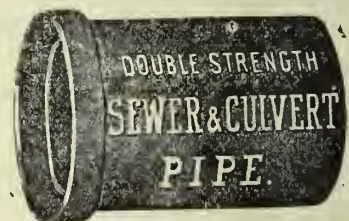


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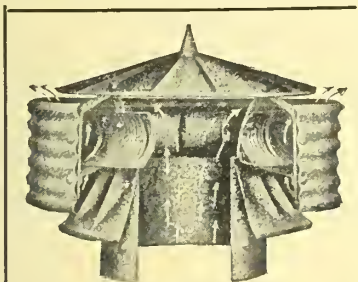
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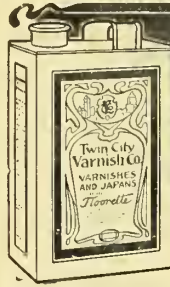
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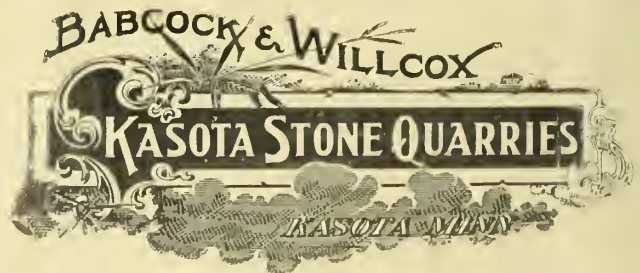
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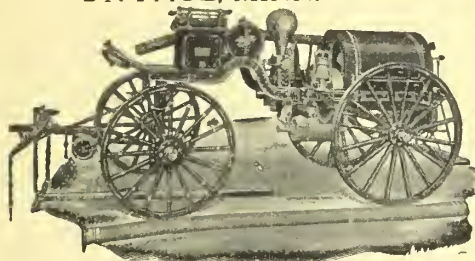
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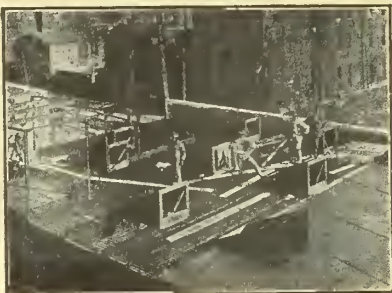
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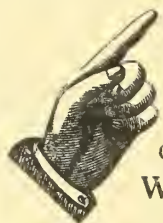
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A Weekly Journal of Construction, Engineering and Architectural News Founded by Harold C. Chapin

Volume XLVII.

Minneapolis, Minn., April 11, 1914.

Number 19

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Daily Advance Construction Reports, \$5.00 a month, \$50.00 a year, in advance.

### ADVERTISEMENTS.

For less than three pages in a year, \$25.00 a page. One page weekly, 52 pages a year, \$22.50 per page. Half page weekly, \$52.65 per month. Quarter page weekly, \$26.34 per month. Eighth page weekly, \$13.65 per month. New advertisements received up to Thursday noon the week of issue.

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## NOTE

For street address of firms mentioned here, consult their advertisements which can readily be found by referring to the alphabetical list on page three.

### ARCHITECTURAL MODELING.

K. F. Lott & Co..Mpls. and St. Paul, Minn.

### ARCHITECTS' SUPPLIES.

Minneapolis Blue Ptg. Co....Mpls., Minn.  
Rogers & Co.....Minneapolis, Minn.

### ASBESTOS AND MAGNESIA PRODUCTS.

H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
Krieger-Jamar Co.....Duluth, Minn.

### ARTESIAN WELLS.

J. F. McCarthy.....Minneapolis, Minn.  
S. Swenson Artesian Well Co.....  
..Minneapolis, Minn.

### BANKS.

Northwestern National Bk....Mpls., Minn.

### BANK AND STORE FIXTURES.

Flour City Ornamental Iron Works.....  
..Minneapolis, Minn.  
A. Moorman & Co.....St. Paul, Minn.  
Northwestern Fixture & Cabinet Co.....  
..Minneapolis, Minn.

### BOILERS.

Andrews Heating Co.....Minneapolis, Minn.  
Associate Mfrs. Supply Co.....Mpls., Minn.  
Central Supply Co.....Minneapolis, Minn.  
Crane & Ordway Co.....St. Paul, Minn.  
Hasey Heating Co.....Minneapolis, Minn.  
McDonnell Boiler & Iron Works.....  
..Des Moines, Iowa

### BONDS—SURETY.

Hood & Penney Co.....Minneapolis, Minn.  
Wm. B. Joyce & Co.....Mpls.-St. Paul, Minn.  
Fidelity & Deposit Co..Mpls.-St. Paul, Minn.

### BRASS GOODS.

Central Supply Co.....Minneapolis, Minn.  
National Mfg. & Supply Co....Mpls., Minn.

### BRICK AND TILE.

American Brick & Tile Co..Mason City, Ia.  
Arnegard, Ole.....Hillsboro, N. D.  
Barber Asphalt Paving Co..Des Moines, Ia.  
Belt Line Brick Co.....Minneapolis, Minn.  
Boukind-Carlson Brick Co.Crookston, Minn.  
Chaska Brick & Tile Co.....St. Paul, Minn.  
Crookston Brk. & Tile Co.Crookston, Minn.  
Dickinson Brick Co.....Dickinson, N. D.  
Flint Brick Co.....Des Moines, Ia.  
Hebron Fire & Pressed Brick Co.....  
..Hebron, N. D.  
Hydraulic Press Brk. Co.Minneapolis, Minn.  
Johnson, Jackson & Corning Co.....  
..Minneapolis and St. Paul, Minn.  
Mason City Brick & Tile Co.Mason City, Ia.  
National Fireproofing Co.....  
..Minneapolis, Minn., and Chicago, Ill.  
Northwestern Fireproofing Co..Mpls., Minn.  
A. C. Ochs Brick & Tile Co.....  
..Springfield, Minn.  
Red River Valley Brick Corporation.....  
..Grand Forks, N. D.  
Shakopee Cement Lime Co..St. Paul, Minn.  
Sioux City Brick & Tile Works.....  
..Sioux City, Ia.  
Standard Salt & Cement Co.Duluth, Minn.  
St. Paul Lime & Cement Co.St. Paul, Minn.  
Twin City Brick Co..St. Paul-Mpls., Minn.

### BRIDGES.

American Bridge Co.....Minneapolis, Minn.  
Corrugated Bar Co.....St. Paul, Minn.  
Crown Iron Works Co.....Minneapolis  
Minneapolis Steel & Mach. Co..Mpls., Minn.  
N. W. Concrete Steel Co.Minneapolis, Minn.  
St. Paul Foundry Co.....St. Paul, Minn.

### BUILDING MATERIAL.

Barber Asphalt Paving Co..Des Moines, Ia.  
Baxter Sash & Door Co.....Duluth, Minn.  
N. B. Cagley & Co.....Minneapolis, Minn.  
Carr-Cullen Co.....Minneapolis, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co..Mpls. and St. Paul, Minn.  
Landers-Morrison-Christensen Co.....  
..Minneapolis, Minn.  
Osgood & Blodgett Mfg. Co..St. Paul, Minn.  
Shakopee Cement Lime Co..St. Paul, Minn.  
The Northwestern Lime Co..St. Paul, Minn.  
Standard Salt & Cement Co.Duluth, Minn.

### BUILDERS' SPECIALTIES.

Dunlop, Moore Co.....Duluth, Minn.  
Palme & Nixon Co.....Duluth, Minn.  
Standard Salt & Cement Co.Duluth, Minn.  
Thomson-Williams Co.....Duluth, Minn.  
Waterloo Register Co.....Waterloo, Ia.

### CALKING PASTE.

Minnesota Weatherproof Calking & Glaz-  
ing Co.....Minneapolis, Minn.

## The Buyer's Guide and Classified Directory of Advertisers

### CEMENT.

Atlas Portland Cement Co., New York,  
N. Y., Chicago, Ill., and Minneapolis, Minn.  
Carney's Cement Works....Mankato, Minn.  
Fowler & Pay....Mpls. and Mankato, Minn.  
Landers-Morrison-Christensen Co.....  
..Minneapolis, Minn.  
N. W. Lime Co..Mpls. and St. Paul, Minn.  
Shakopee Cement Lime Co..St. Paul, Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
Speakes Lime & Cement Co..Superior, Wis.  
St. Paul Lime & Cement Co..St. Paul, Minn.

### CELLS, STEEL.

Avery Steel & Iron Co..Minneapolis, Minn.  
Crown Iron Works Co.....Minneapolis  
Diebold Safe & Lock Co.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co..Mpls., Minn.

### CEILINGS, STEEL.

Canton Steel Ceiling Co..Minneapolis, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### CHAIRS, OPERA.

Northern Theatre Supply Co..Mpls., Minn.

### COAL CHUTES.

Crown Iron Works Co.....Minneapolis  
Enterprise Iron Works....Albert Lea, Minn.  
Gardner Hardware Co.....Minneapolis, Minn.  
Majestic Furnace & Fdy. Co..Mpls., Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
Waterloo Register Co.....Waterloo, Ia.

### COLD STORAGE PLANTS.

Chas. A. Berger.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.

### COLUMN CLAMPS.

O. F. Symons & Co.....Minneapolis, Minn.

### CONCRETE CONSTRUCTION.

Corrugated Bar Co.....St. Paul, Minn.  
C. A. P. Turner.....Minneapolis, Minn.

### CONCRETE MACHINERY.

Atlas Engineering Co.....Milwaukee, Wis.  
Nels Erickson.....Minneapolis, Minn.  
Eureka Machine Co.....Lansing, Mich.  
G. E. Ingersoll & Co.....St. Paul, Minn.  
Koehring Machine Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
Standard Salt & Cement Co..Duluth, Minn.  
Jaeger Machine Co.....Columbus, Ohio  
Raymer Hardware Co.....St. Paul, Minn.  
Lansing Co.....Lansing, Mich.  
Northwestern Iron & Steel Works.....  
..Eau Claire, Wis.

### CONCRETE REINFORCING BARS.

Inland Steel Co.....St. Paul, Minn.  
Corrugated Bar Co.....St. Paul, Minn.  
N. W. Concrete Steel Co.Minneapolis, Minn.  
Minneapolis Steel & Mach. Co..Mpls., Minn.

### CORNICES.

Griffin & Boehme.....St. Paul, Minn.  
F. V. Haverland.....Minneapolis, Minn.  
Minnesota Roofing & Cornice Works.....  
..St. Paul, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.  
St. Paul Roofing, Cornice & Ornament Co.  
.....St. Paul, Minn.

### CORRUGATED IRON, ETC.

Corrugated Bar Co.....St. Paul, Minn.

### CONCRETE REINFORCING.

Inland Steel Co.....St. Paul, Minn.  
N. W. Concrete Steel Co.Minneapolis, Minn.

### CONTRACTORS.

N. B. Cagley & Co.....Minneapolis, Minn.

### CONTRACTORS' SUPPLIES AND MACHINERY.

Decker Hardware Co.....St. Paul, Minn.  
O. F. Symons & Co.....Minneapolis, Minn.

### CULVERTS.

Victor H. Leeby..... Fargo, N. D.  
Biesanz Stone Co.....Winona, Minn.  
Klauer Mfg. Co.....Dubuque, Ia.  
Minneapolis Steel & Mach. Co..Mpls., Minn.

### CRUSHED STONE.

Fowler & Pay....Mankato, Minn.  
Kettle River Co.....Minneapolis, Minn.  
Klauer Mfg. Co.....Dubuque, Ia.  
Mantorville Stone Co.....Mantorville, Minn.  
New Ulm Stone Co.....New Ulm, Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
Widell Co.....Mankato, Minn.

### CREOSOTING.

Republic Creosoting Co., A. E. Larkin  
.....Minneapolis, Minn.

### DEADENING MATERIAL.

H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co.....St. Paul, Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
Union Fibre Co.....Winona, Minn.

### DECORATIONS.

Odin J. Oyen.....La Crosse, Wis.

### DITCHING MACHINES.

Dix Machine Co.....Stillwater, Minn.

### ELECTRICAL ENGINEERING.

Minneapolis Electric Equipment Co.....  
..Minneapolis, Minn.  
Northern Electrical Co.....Minneapolis, Minn.

## RATES

For three lines in directory, giving name, address and goods handled, \$25 for 1 year, 52 times.

### SAMPLE AD

Great Northern Brick Company  
Pressed Brick and Drain Tile  
Minneapolis, - - Minn.

### ELECTRIC MOTORS AND SUPPLIES

H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
Minneapolis Electric Equipment Co.....  
..Minneapolis, Minn.  
Sterling Electric Co.....Minneapolis, Minn.

### ELECTRIC SPECIALTIES

Minneapolis Electric Equipment Co.....  
..Minneapolis, Minn.

### ELEVATORS AND ENCLOSURES.

Kimball Bros. Co.....Council Bluffs, Ia.  
Gust Lagerquist.....Minneapolis, Minn.  
Lee & Hoff Mfg. Co.....St. Paul, Minn.

### ELEVATOR CABS.

N. W. Fixture & Cabinet Co..Mpls., Minn.

### ENGINEERS—CONTRACTORS.

Power Engineering Co..Minneapolis, Minn.

### ENGINEERS.

Oscar Claussen Engineering Co.....  
..St. Paul, Minn.  
Charles L. Pillsbury.....Minneapolis, Minn.  
L. P. Wolff.....St. Paul, Minn.  
M. B. Stone.....Minneapolis, Minn.  
W. P. Cowles.....Minneapolis, Minn.

### FIRE ESCAPES.

Crown Iron Works Co.....Minneapolis  
Des Moines Structural Steel Works.....  
..Des Moines, Ia.  
Davenport Mach. & Fdy. Co..Davenport, Ia.  
Minneapolis Steel & Mach. Co..Mpls., Minn.

### FIREPROOF DOORS.

Thorp Fireproof Door Co..Minneapolis, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### FLUE LINING.

Northwestern Lime Co.....St. Paul, Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
St. Paul Lime & Cement Co..St. Paul, Minn.

### FIRE PROTECTION APPARATUS.

Waterous Engine Works Co..St. Paul, Minn.  
H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.

### FIREPROOFING DOORS AND SHUTTERS.

Selden Roofing & Manufacturing Co.....  
..Minneapolis, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### FLOORING.

American Torgoment Flooring Co.....  
..Minneapolis and (Midway) St. Paul, Minn.  
Fama Stonewood Co.....St. Paul, Minn.  
H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co..Mpls. and St. Paul, Minn.  
Osgood & Blodgett Mfg. Co..St. Paul, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.  
I. Stephenson Co.....Wells, Mich.  
Thomson-Williams Co.....Duluth, Minn.

### FURRING.

Corrugated Bar Co.....St. Paul, Minn.

### GAS AND ELECTRICAL FIXTURES.

Herber Chandeller Co.....Minneapolis, Minn.  
Mpls. Electric Equipment Co..Mpls., Minn.  
Minneapolis Gas Fixture Co..Mpls., Minn.  
Sterling Electric Co.....Minneapolis, Minn.

### GLASS.

American Luxfer Prism Co.....Chicago, Ill.  
Minnesota Art Glass Co.....St. Paul, Minn.  
Pittsburgh Plate Glass Co.....  
..Minneapolis and St. Paul, Minn.

### GRAVITY CARRIER.

Minnesota Manufacturers' Association.....  
..North St. Paul, Minn.

### HARDWARE TRIMMINGS.

Decker Hardware Co.....St. Paul, Minn.  
Gardner Hardware Co.....Minneapolis, Minn.  
Raymer Hardware Co.....St. Paul, Minn.  
The Lane Co.....Minneapolis  
Waterous Engine Co.....St. Paul, Minn.  
Warner Hardware Co.....Minneapolis, Minn.

### HEAT REGULATORS.

Andrews Heating Co.....Minneapolis, Minn.

### HEATING AND VENTILATING.

Andrews Heating Co.....Minneapolis, Minn.  
Associate Mfrs. Supply Co.....  
..Minneapolis, Minn.  
Hasey Heating Co.....Minneapolis, Minn.  
H. Kelly & Co.....Minneapolis, Minn.  
National Mfg. & Supply Co..Mpls., Minn.  
Charles Wilkins & Co..Minneapolis, Minn.

### HOSE.

Gardner Hardware Co.....Minneapolis, Minn.  
W. K. Morison & Co.....Minneapolis, Minn.

### HOTELS.

Radisson Hotel.....Minneapolis, Minn.



## NOTE

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### INSULATING MATERIAL.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co.....St. Paul, Minn.  
Union Fibre Co.....Winona, Minn.

### INSURANCE.

Fidelity & Deposit Co.....Minneapolis and St. Paul, Minn.  
Fred L. Gray Co.....Minneapolis, Minn.  
Hood & Penney Co.....Minneapolis, Minn.  
W. B. Joyce Co.....Mpls. and St. Paul, Minn.  
Minneapolis Insurance Agency.....Mpls., Minn.

### IRON AND STEEL WORK.

Avery Steel & Iron Co.....Minneapolis, Minn.  
Clinton Bridge Works.....Clinton, Ia.  
Crown Iron Works.....Minneapolis, Minn.  
Davenport Machine & Foundry Co.....Davenport, Ia.  
Des Moines Structural Steel Works.....Des Moines, Ia.  
Inland Steel Co.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
N. W. Concrete Steel Co.....Minneapolis, Minn.  
Oberg & Stainer.....Minneapolis, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.  
St. Paul Foundry Co.....St. Paul, Minn.  
E. J. Voggenthaler Co.....Dubuque, Ia.  
Youngstown Iron & Steel Co.....Minneapolis, Minn.

### JOIST HANGERS.

Avery Steel & Iron Co.....Minneapolis, Minn.  
Crown Iron Works Co.....Minneapolis  
Davenport Machine & Foundry Co.....Davenport, Ia.  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
Northwestern Concrete Steel Co.....

### LANDSCAPE ARCHITECTS.

B. Terrell Hoyt.....Minneapolis, Minn.

### LIME.

Fowler & Pay.....Mpls. and Mankato, Minn.  
Landers-Morrison-Christenson Co.....Minneapolis, Minn.  
Gust Lillyblad.....Red Wing, Minn.  
Shakopee Cement Lime Manufacturing Co.....St. Paul, Minn.  
Speakes Lime & Cement Co.....Superior, Wis.  
St. Paul Lime & Cement Co.....St. Paul, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.  
The Northwestern Lime Co.....St. Paul, Minn.

### MANTELS—GRATES.

Drake Marble & Tile Co.....Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
N. W. Marble & Tile Co.....Minneapolis, Minn.  
Twin City Tile & Marble Co.....Mpls., Minn.

### MARBLE, TILING, MOSAIC.

Drake Marble & Tile Co.....Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
N. W. Marble & Tile Co.....Minneapolis, Minn.  
Thomson-Williams Co.....Duluth, Minn.  
Twin City Tile & Marble Co.....Mpls., Minn.

### METAL SHINGLES.

Milwaukee Corrugating Co.....Milwaukee, Wis.

### METAL AND WIRE LATH.

Corrugated Bar Co.....St. Paul, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.  
Johnson, Jackson & Corning Co.....Minneapolis and St. Paul, Minn.  
Northwestern Lime Co.....St. Paul, Minn.  
St. Paul Lime & Cement Co.....St. Paul, Minn.  
Thomson-Williams Co.....Duluth, Minn.

### MILLWORK.

Baxter Sash & Door Co.....Duluth, Minn.  
Osgood-Blodgett Mfg. Co.....St. Paul, Minn.

### MUNICIPAL CASTINGS.

Davenport Mach. & Fdy. Co.....Davenport, Ia.

### OFFICE FURNITURE.

Farnham Printing & Sta. Co.....Mpls., Minn.

### ORNAMENTAL IRON AND WIRE.

Builders Iron Works Co.....Minneapolis and St. Paul, Minn.  
Crown Iron Works Co.....Minneapolis  
Davenport Machine & Foundry Co.....Davenport, Ia.  
Demueles Bros.....Minneapolis, Minn.  
Flour City Ornamental Iron Works.....Minneapolis, Minn.  
Midway Ornamental Iron Works.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
St. Paul Foundry Co.....St. Paul, Minn.

### PAINTS, FILLERS, ETC.

Gardner Hardware Co.....Minneapolis, Minn.  
Ricketson Mineral Paint Works.....Milwaukee, Wis.

# The Buyer's Guide and Classified Directory of Advertisers

### PACKINGS AND HOSE.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
PAVEMENT.  
Barber Asphalt Paving Co.....Des Moines, Ia.  
Barrett Mfg. Co.....New York, N. Y.

### PICTURE MACHINES.

Northern Theatre Supply Co.....Mpls., Minn.

### PIPE AND BOILER COVERING.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

### PIPE—CAST IRON.

American Cast Iron Pipe Co.....Minneapolis

### PLASTER—WALL.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
Plymouth Gypsum Co.....Fort Dodge, Ia.  
Shakopee Cement Lime Co.....St. Paul, Minn.  
St. Paul Lime & Cement Co.....St. Paul, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.

### PLASTERING—ORNAMENTAL.

Brioschi-Minuti Co.....St. Paul, Minn.

### PLASTIC ORNAMENTS.

Brioschi-Minuti Co.....St. Paul, Minn.  
K. F. Lott & Co.....Mpls. and St. Paul, Minn.

### PLUMBING AND GAS FITTING.

Charles Wilkins & Co.....Minneapolis, Minn.

### PRINTING.

Farnham Printing Co.....Minneapolis, Minn.

### PRISMS.

American Luxfer Prism Co.....Chicago, Ill.  
Crown Iron Works Co.....Minneapolis

### PLUMBING AND HEATING JOBBERS.

Associate Mfrs. Supply Co.....Mpls., Minn.  
Central Supply Co.....Minneapolis, Minn.  
National Mfg. & Supply Co.....Mpls., Minn.

### RADIATORS.

Associate Mfrs. Supply Co.....Mpls., Minn.  
Central Supply Co.....Minneapolis, Minn.

### REVOLVING DOORS.

Van Kannel Revolving Door Co.....St. Paul, Minn.

### ROOFING GRAVEL AND ASPHALT.

Griffin & Boehme.....St. Paul, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
Krieger-Jamar Co.....Duluth, Minn.  
Minnesota Roofing & Cornice Works.....St. Paul, Minn.  
Northwestern Lime Co.....St. Paul, Minn.  
Scribner-Libby Co.....St. Paul, Minn.  
Selden Roofing & Manufacturing Co.....Minneapolis, Minn.  
Thomson-Williams Co.....Duluth, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### ROOFING—METAL.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.  
Duluth Corrugating & Roofing Co.....Duluth, Minn.  
Gardner Hardware Co.....Minneapolis, Minn.  
La Crosse Steel Roofing & Corrugating Co.....St. Paul, Minn.  
St. Paul Roofing, Cornice & Ornamental Co.....St. Paul, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### ROOFING MATERIAL.

Barrett Mfg. Co.....New York, N. Y.  
Corrugated Bar Co.....St. Paul, Minn.  
John Leslie Paper Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
McLellan Paper Co.....Minneapolis, Minn.

### ROOFING AND SIDING—IRON AND STEEL.

Gardner Hardware Co.....Minneapolis, Minn.  
Inland Steel Co.....St. Paul, Minn.

### RUBBER SHINGLES.

Standard Salt & Cement Co.....Duluth, Minn.

### RUST-RESISTING IRON SHEETS.

Inland Steel Co.....St. Paul, Minn.

### SAFES.

Diebold Safe & Lock Co.....St. Paul, Minn.  
Heilig & Elliott Co.....Minneapolis, Minn.  
Herring-Hall-Marvin Safe Co.....

### SAND AND GRAVEL.

Standard Salt & Cement Co.....Duluth, Minn.

### SAW RIGS.

H. B. Jones, 349 Security Bank Building, Minneapolis, Minn.  
Raymer Hardware Co.....St. Paul

### SEWER PIPE AND DRAIN TILE.

Ingalls Stone Co.....Bedford, Ind.  
Iowa Sewer Pipe & Tile Co.....Des Moines, Ia.  
Northwestern Lime Co.....St. Paul, Minn.  
Plymouth Clay Products Co.....Fort Dodge, Ia.  
Red Wing Sewer Pipe Co.....Red Wing, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.

## REMEMBER

Announcements on this page are read by architects, contractors, and the building trade generally, all over the Northwest and produce excellent results.

### SHEETS—IRON AND STEEL.

Gardner Hardware Co.....Minneapolis, Minn.  
Inland Steel Co.....St. Paul, Minn.

### SIDEWALK LIGHTS.

American Luxfer Prism Co.....Chicago, Ill.  
Crown Iron Works Co.....Minneapolis  
K. F. Lott & Co.....St. Paul and Minneapolis, Minn.

### SLATE BLACKBOARDS.

Twin City Tile & Marble Co.....Minneapolis, Minn.

### SKYLIGHTS.

Krieger-Jamar Co.....Duluth, Minn.  
St. Paul Roofing, Cornice & Ornament Co.....St. Paul, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### STEEL—BARS.

Inland Steel Co.....St. Paul, Minn.  
Twin City Tile & Marble Co.....Mpls., Minn.

### STONE.

Babcock & Wilcox.....Kasota, Minn.  
Biesanz Stone Co.....Winona, Minn.  
Also Building Material, Gravel for Roofing, Sand and Gravel.  
Green Stone Co.....Kasota, Minn.  
Edw. Edinger Co.....Cedar Rapids, Ia.  
Ingalls Stone Co.....Bedford, Ind.  
Kettle River Co.....Minneapolis, Minn.  
Duluth Cut Stone Co.....Duluth, Minn.  
Mantorville Stone Co.....Mantorville, Minn.  
New Ulm Stone Co.....New Ulm, Minn.  
Pioneer Granite Co.....St. Cloud, Minn.  
Sauk Rapids Granite Co.....Sauk Rapids, Minn.  
Wm. Penn Stone Co.....Minneapolis, Minn.  
The Whidell Co.....Mankato, Minn.

STRUCTURAL SECTIONS AND SHEETS.  
Inland Steel Co.....St. Paul, Minn.

### TANKS—STEEL.

American Bridge Co.....Minneapolis, Minn.  
Central Supply Co.....Minneapolis, Minn.  
Minneapolis Steel & Mach. Co.....Mpls., Minn.

### TELESCOPIC HOISTS.

Avery Supply Co.....Minneapolis, Minn.

### TERRA COTTA.

Johnson, Jackson & Corning.....Minneapolis and St. Paul, Minn.  
K. F. Lott & Co.....Minneapolis and St. Paul, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.

### VARNISHES.

Gardner Hardware Co.....Minneapolis, Minn.  
North Star Varnish Co.....Minneapolis, Minn.  
Twin City Varnish Co.....St. Paul, Minn.

### VALVES.

Central Supply Co.....Minneapolis, Minn.  
Crane Co.....Minneapolis, Minn.  
Crane & Ordway Co.....St. Paul, Minn.

### VAULTS.

Diebold Safe & Lock Co.....St. Paul, Minn.  
Heilig & Elliott Co.....Minneapolis, Minn.  
Herring-Hall-Marvin Safe Co.  
Also Vault Doors, Vault Furnishings and Filling Equipment.

### VENTILATING SYSTEMS.

Hackney Ventilating Co.....Minneapolis, Minn.  
Charles Wilkins & Co.....Minneapolis, Minn.

### WALL BEDS.

Northwestern Bedding Co.....St. Paul, Minn.

### WATERPROOFING.

Gardner Hardware Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co.....St. Paul, Minn.

### WATER TOWERS, STEEL.

Minneapolis Steel & Machinery Co.....Minneapolis, Minn.

### WINDOW SCREENS—METAL FRAME.

O. F. Symons & Co.....Minneapolis, Minn.

### WINDOW SHADES—WASHABLE.

National Window Shade Co.....Minneapolis, Minn.

### WIRE AND IRON WORKS.

Builders Iron Works.....Minneapolis and St. Paul, Minn.  
Demueles Bros.....Minneapolis, Minn.  
Midway Ornamental Iron Works.....St. Paul, Minn.

### WEATHER STRIPS.

Metal Weather Strip Co.....St. Paul, Minn.  
O. F. Symons & Co.....Minneapolis, Minn.

### WOODWORKING.

G. E. Ingersoll.....St. Paul, Minn.



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Quick Shipments      Prompt Deliveries

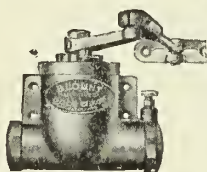
Agents for Yale & Towne Hardware

### W. K. MORISON & CO.

247-249 NICOLLET AVENUE

MINNEAPOLIS, MINN

(Cut on this line.)



**BLOUNT  
DOOR  
CHECKS**

**SEND THIS COUPON**  
with your order and we will allow you  
**A DISCOUNT OF 10% AND**  
**PREPAY FREIGHT 200 MILES**

1. For Screen Doors..... \$3.25
2. For light inside Doors..... 4.25
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over 2½x7 feet..... 5.00
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inside Doors ..... 6.00
5. For heavy outside Doors not  
over 3½x7½ feet..... 8.00
6. For extra heavy Doors..... 10.00

### GARDNER HARDWARE CO.

304-306 HENNEPIN AVENUE

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## IDEAL FLOORING

Maple --- Birch --- Beech



**I. STEPHENSON CO, Trustees**  
WELLS, - - - MICHIGAN

## PLYMOUTH CLAY PRODUCTS COMPANY

FORT DODGE, IOWA

MANUFACTURERS OF

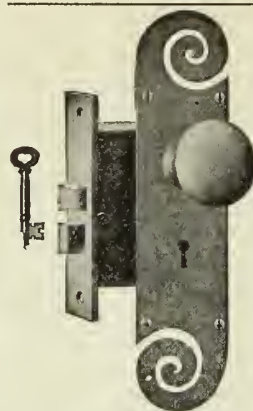
*Large Drain Tile*

*Sewer Pipe*

*Well Pipe*

*Flue Linings*

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## WARREN DESIGN COLONIAL

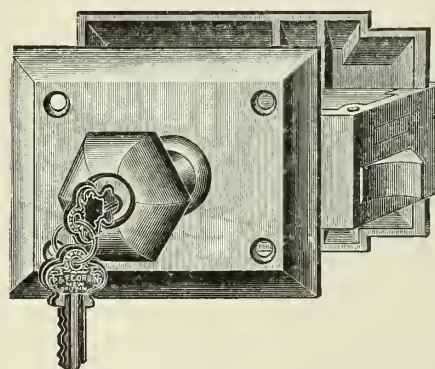
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hardware provides the  
distinction and worth  
that lies in artistic de-  
signs and honest work-  
manship.

Ask for Catalogs

### WARNER HARDWARE CO.

13 So. 6th St.  
Minneapolis.



**CORBIN  
LOCKS**

We make a  
Specialty of fine  
Builders' Hard-  
ware and Con-  
tractors' Supplies  
Estimates furn-  
ished promptly.

### ADAM DECKER HARDWARE COMPANY

347-49 JACKSON STREET

ST. PAUL, MINN.

## BUILDING MATERIALS

SASH

DOORS

INTERIOR

SASH  
DOORS  
AND ALL KINDS OF  
MILL  
WORK

FINISH

MANTLES

GRILLS

All Kinds

of Glass

LET US FIGURE;

ALL ESTIMATES FREE

### CARR-CULLEN CO., Minneapolis

10 Ave. N. E. and Marshall St. N. E. Tel. N. W. East 345. T. S. No. 345.

Face Brick      Enameled Brick  
Architectural Terra Cotta  
Metal Lath  
Cabot's Creosote  
Shingle Stains and  
Sheathing Quilt

### JOHNSON - JACKSON & CORNING CO.

216-17 Lumber Exchange  
MINNEAPOLIS, MINN.

633 Ryan Building  
ST. PAUL, MINN.



# The IMPROVEMENT BULLETIN

OFFICIAL ORGAN OF THE MINNESOTA STATE ASSOCIATION OF BUILDERS EXCHANGES

VOLUME XLVII.

SATURDAY, APRIL 11, 1914

NUMBER 19

## EDITORIAL

O. L. COLBURN, Editor

### ARCHITECTS HELD RESPONSIBLE.

Discussing fire hazards in schools, and plans to avoid them, several writers recently gave especial emphasis to their convictions as to the responsibility of architects. Nothing was said about the limitation, by inadequate appropriation, of the efforts of architects to provide the safest possible structures.

"Architects" says a writer in Safety Engineering, "have the greatest knowledge of planning and construction, they know the fire-resistance of materials and have the greatest chance in planning new buildings to convince the committee in charge of the necessity of the best protection against fire. It is to the interest of every architect that his building shall be constructed in the best possible way and that his public shall know why it is the best. In case of accident due to poor arrangement it is the architect who receives well-deserved public censure."

In his next sentence, this writer, Frank Irving Cooper, a Boston architect, says that "even Boston" builds outlying schools of second class construction. But he reiterates:

"An informed and awakened public will demand that an architect shall design school buildings to meet the demands of educators and protect the lives of the school children. When the law holds him criminally responsible for faulty planning and construction, reform will be immediate."

Competition is responsible for many shortcomings. This and restricted expense, hurry to build schools before communities feel able to provide the best; and the various ideas of school board members, are much oftener the cause of fire hazards in schools, than lack of foresight, equipment for the work, or ability, or lack of ordinary interest in human welfare on the part of the architect. Give him a chance and he will provide a building in which fire will have almost no chance at human life.

### PROSPERITY IN THE TWIN CITIES.

During the past month Minneapolis has had more cause than usual to feel successful and progressive. Work was started on its first million-dollar building this year—the 20-story bank and office building for the First National Bank and the Soo railroad. The building record for the new year showing a steady increase over 1913, reached in March, the high point of over 100 per cent gain, compared with the March record last year. Last week, the news came from Washington that Minneapolis had been chosen as one of the twelve cities in which regional banks will be established. This means that the Flour City will be the banking center of the Northwest, Minnesota, the Dakotas, Montana and parts of Wisconsin and Michigan.

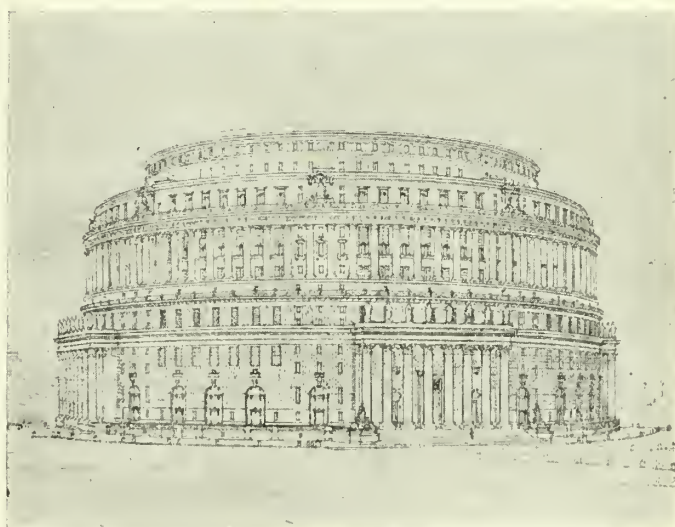
In St. Paul, within a month, work has been started on the immense modern bank, office and headquarters building for the Great Northern and Northern Pacific roads, and the Hill financial institutions, a bank and a trust company. This building will cover nearly two-thirds of a city block and will be twelve stories high. The steel contract calls for 12,000 tons. Actual construction work, following razing of the old bank building, was begun on the Merchants' National Bank and office building, a modern skyscraper, whose cost will be over a million. This building and the corresponding skyscraper in the other twin city, Minneapolis, will be unusually handsome. Quiet but momentous work is being done on the Union depot projects in Minneapolis and St. Paul; and unless St. Paul hurries its big \$10,000,000 enterprise along, with its consequent moving over of the Mississippi river bed for the new station site, Minneapolis will be using its twin station on or before the grand opening in the Hill city. In

the near future rises the handsome outlines of the great trade school in Minneapolis, provided for, with a bequest of \$7,000,000, in the will of its famous flour miller, Mr. Dunwoody.

Building inspector James G. Houghton of Minneapolis in reviewing the construction recorded during the first quarter of 1914 shows an increase from \$1,437,050 in 1913 to \$3,068,225 this year, and the statement is made that Minneapolis building in 1914 may reach a grand total of \$15,000,000. The number of buildings so far is about twice as large as last year.

C. S. Frost of Chicago, the architect of the \$3,000,000 hotel building, St. Paul, also of the Union station there, and the Great Northern, Minneapolis, recently opened a permanent office in St. Paul. He said that St. Paul was outstripping Chicago in proportion to size, the number and magnitude of the public and private downtown buildings attracting wide attention.

### NEW YORK IS TO BE CONGRATULATED.



Objection to Guy Lowell's plan for a circular court house building has been withdrawn by the supreme court justices. The committee of architectural experts favored it, also the court house board. The municipal art commission heartily favored it. We take the liberty to print again the picture of this \$15,000,000 structure, destined to be one of the country's most famous buildings.

### ENGINEERS AND ROSES COMING IN JUNE.

Max Toltz, head of the Minnesota organization of the American Society of Mechanical Engineers, is preparing for the spring meeting of the national body which will be held in the Twin Cities June 16-19. The two opening days will be spent in St. Paul with an address by James Hartness, president of the society and a Message to the Engineering Fraternity, by J. J. Hill. A business session will be held. The business session of Wednesday, June 17, forenoon, will be followed by a professional meeting in the afternoon. Ladies of the visiting party will be shown about the city. The Thursday morning session will be held at the state university and the ladies will be shown about Minneapolis. In the afternoon the delegates and ladies will be entertained at the beautiful summer home of Gebhart Bohn, Lake Minnetonka. During the Twin City meeting there will be technical excursions, including, it is expected, a trip to Duluth, and possibly Keokuk. Reports of especial interest will be made by committees on standard specifications for steam boilers, flanges, and other topics. Grain Handling, Ore Handling, Powdered Fuel and other subjects will be discussed.



# The Architectural Exhibit at Madison

A notable exhibition is now installed in the north wing of the museum floor of the state historical library building, Madison, Wis. It is an exhibit of architectural, sculptural and decorative design. It represents the carefully selected work of the country and has been assembled in New York to be successively exhibited in many cities.

The exhibit aims to show the varieties of the artistic effort that enter into the architectural craft. It begins with the work of the designer of the building, as well as the designer of the grounds and their relation to the building. Landscape architecture and the architectural design are largely represented. The exhibition includes also the supporting arts, notably sculpture in important stone buildings, and the decorative treatments of facades. In addition there are examples of work primarily sculptural, such as statues, memorial tablets and commemorative monuments.

To gain a comprehensive idea of the scope of the exhibit it may be well to call attention to a few of the district departments represented. One may begin with the buildings upon American soil which, despite their recent erection, have already become recognized as classic or standard examples of their type.

First and earliest is the very remarkable facade of Saint Bartholomew's church in New York which remains one of the most successful adaptations of the Romanesque work in America. It represents one of the masterpieces of McKim, Mead and White. The sculptural treatment of the three doorways by such well known sculptors as French, Martiny and Herbert Adams is as distinctive in design as in brilliancy in execution. There are a few other examples of ecclesiastical architecture worth attention. There may be mentioned the interior of the chapel at West Point by Cram, Goodhue and Ferguson, and the South Church in New York, by the same architects, as well as the chapel of the Intercession, in New York. One of the recent landmarks is the Pennsylvania terminal in New York City, also the work of McKim, Mead and White. It is represented by a general view of the building, showing the classical treatment on a scale possibly not equalled in any other structure. The main waiting room with its characteristic vaulting appears and a suggestion of the engineering difficulties in providing track space through different levels, is shown. Interest also attaches to the prospective growth of New York which provides for a type of municipal building in which the solution by height is almost essential. This is represented again by the work of McKim, Mead and White, in the municipal building for New York, while the sacrifices that must be made to proportion offer an almost insoluble problem, it is interesting to see how far it may be met by engineering skill, while yet claiming the decorative character. Possibly still more widely known is the Woolworth building, the work of Cass Gilbert, representing the highest building as yet attempted. The adaptations of gothic treatment to this enormously extended vertical pile even better appreciated in the view of the actual building from a distance than in the necessarily imperfect view of the design of the building from a pen drawing.

Buildings of public use are also represented in the successful architectural treatment of the chapel of the Paulist Fathers, by Cram, Goodhue and Ferguson. (Decorations for the interior are shown in other views), worthy of note is the United States Military Academy at West Point by the same architects. Deserving of special mention is the Renaissance structure of the Walters art gallery in Baltimore by Delano & Aldrich, perhaps is exceeded in successful treatment only by Mr. Pierpont Morgan's library in New York (not represented in this exhibit). What some critics have termed the most successful Romanesque building in brick is the St. Paul's chapel of Columbia university (which is the work of Howells & Stokes). The fidelity to the Romanesque design both in exterior and interior, and the remarkably successful proportions as well as color treatment of the brick, make this building one of the most noteworthy of recent structures.

There are several other important buildings included in the collection, and it is in the decoration of these that some of the sculptural and painted exhibits are devoted. The most important sculptors of the country have naturally found their vocation in the elaborate sculptural treatment which these ambitious edifices require. One may begin with two examples from the new Wisconsin capitol, the pediment by Carl Bitter, representing the opening of Wisconsin immigration and industry; and the south wing pediment by Adolph

Weinmann. Mr. Meinmann is well known as the sculptor of the Lincoln statue, the replica of which stands on the university campus. Attention may be called to some of the detailed work of Weinmann such as the clock case group for the Pennsylvania terminal, and a collection of details for the sculptural treatment of the new municipal building in New York. Of other sculptural work may be mentioned a group of Robert Aitken; another work of Carl Bitter, while perhaps the most interesting and original treatment is that of Eli Harvey the sculptor of animals, whose work will stand comparison with the best of European art. The very remarkable lion house of the Bronx Park in New York, of which Heins & La Farge were the architects, shows Mr. Harvey's work.

Mural decorations are represented by two or three sketches in oil, but for the most part by photographs of mural work. That of Mr. Blashfield, whose "Spirit of Wisconsin" is in the assembly chamber of the capitol, is here shown in what critics regard as his most successful work, the trytych, "Washington Laying his Commission at the Feet of Columbia," in the Baltimore court house. Numbers 17 and 18 show treatment of wall spaces for the court house in Jersey City and for Youngstown, Ohio, the latter receiving the medal of honor in 1911. A good example of mural decoration applied to more domestic purposes is afforded by number 136, a work by Tabor Sears; also worthy of mention is the "Battlewatch," a mural painting for the new police quarters in New York, by Francis Newton.

One of the most characteristic contributions to American life on the part of architecture is the treatment of the country house. Of this there are many examples.

Next to the country house perhaps the most distinctive problem that has faced American architects is that of overcoming the difficulties of the narrow front in cities as New York. How space has been provided by the omission of hallways and the clever treatment of the front and rear divisions is shown. The day has gone by when it is fair to claim for American conditions any excuse for failing to meet the standard of good art as well as the requirements of good living. Civic betterments is the theme of both exhibits. In this movement a share, and an increasing share, belongs to the field of art. The dissemination of good taste and high standards which every good architectural structure affords is a part of education, and the most democratic part of it. It is the purpose of such exhibitions to bring to the people the importance of this aspect of social improvement. Madison should profit by the lesson; the advantage lies open to all who will visit and study the two exhibitions now on view at the assembly chamber of the historical library museum.

## MINNEAPOLIS BUILDERS' EXCHANGE.

Have you seen the Sack Morgue at the Exchange? It's great. Don't miss it.

Plans on file April 4: school, Cooperstown, N. D., bids open April 3; cottage No. 9, Anoka, Minn., April 8; cottage No. 8, Anoka, Minn., April 8; bank, Beltrami, Minn., April 9; mechanical equipment, Wm. Penn school, Minneapolis, Minn., April 9; bank and business building, Comfrey, Minn., April 15; theater, Windom, Minn., April 20; chemistry building, Vermillion, S. D., April 22, mechanical equipment, hotel Bemidji, Minn., April 22; garage, Fargo, N. D.; bank, Grand Forks, N. D., April 29; Ardock school, Ardock, N. D., May 4.

Contracts awarded: hotel, Bemidji, Minn., Hoglund Bros., Minneapolis; Elks' home, Miles City, Mont., Clearman & Co., Miles City; theater, Sioux City, Iowa, Coomer & Small, Sioux City; bank, Huron, S. D., Hoglund Bros., Minneapolis.

## GRAND FORKS BUILDERS' AND TRADERS' EXCHANGE.

Plans on file at the Grand Forks Builders' and Traders' Exchange for 2-story brick bank building for Scandinavian American Bank, Grafton, N. D. Architect, Bert D. Keck; time, April 25.

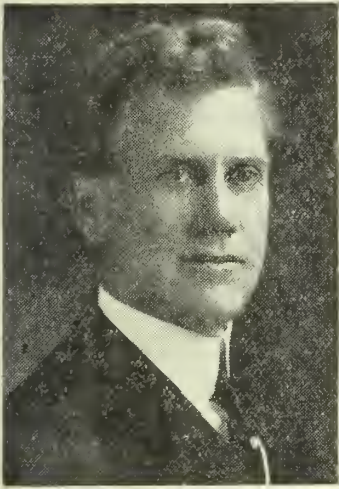
## NEW ELECTRICAL INVENTIONS.

In modern science there is nothing that seems to be developing so rapidly as the electrical line. One of the latest is the new Laco Projector Tungsten lamp, which gives four times the downward candle power of any other Tungsten. Another feature of this lamp is its durability. Recently the White City and Riverside Amusement Park of Chicago, purchased over 45,000 Laco lamps including all sizes. The Sterling Electric Co., 33 S. 5th st., Minneapolis, are the northwestern distributors for this lamp and at the present have a very attractive Laco lamp window display.



# PERSONAL AND GENERAL NEWS.

## Doings of the Northwest this Week Boiled Down for Busy Readers



James R. Ralph, the new president of the builders' club, the lively and popular sane, social organization of the Minneapolis Builders' Exchange, is an unusually young looking man, yet the records show that he has been secretary and treasurer of J. L. Robinson Co., general contractors, for fourteen years. He has lived in Minneapolis sixteen years. His native city is one made famous by General Grant, Galena, Ill., where Mr. Ralph was born in 1878. He has been a member of the Builders' Exchange since it was organized. He is a charter member of the builders' club. He is a member of most of the best known clubs in the city, such as

the athletic and automobile clubs. He is also a member of the Civic and Commerce Association and of Masonic and Royal Arcanum organizations. He is a progressive in the

building world, and his administration of the builders' club is already showing the elements of success.

The rooms of the Builders' Exchange were crowded Wednesday night when the Builders' Club entertained. The program of music, recitations and miscellaneous entertainment kept the guests interested for several hours. Then they found refreshments, including easter eggs laid in a side room. The Builders' Club is preparing for another theater party and an automobile party to the automobile club.

J. E. Vinum and F. E. Johnson, Superior, have organized The Twin Ports House Building Co.; offices, Truax building.

B. O. Phinney, formerly with Penn Stone Co., has organized at Superior, Wis., The Twin Ports Cut Stone Co., and is negotiating for a new site on the bayfront. The Penn Stone Co. property at the lower end of Tower av., Superior, was recently taken over by Whitney Bros. The plant was owned by the Kettle River Co.

S. N. Olson, contractor, Devils Lake, N. D., has also engaged in the real estate business.

Concrete paving in Minnesota this year includes 60,000 yards in Minneapolis, 25,000 in Mankato, 20,000 yards in Bemidji.

Contractors of Neenah, Wis., are planning a permanent organization.

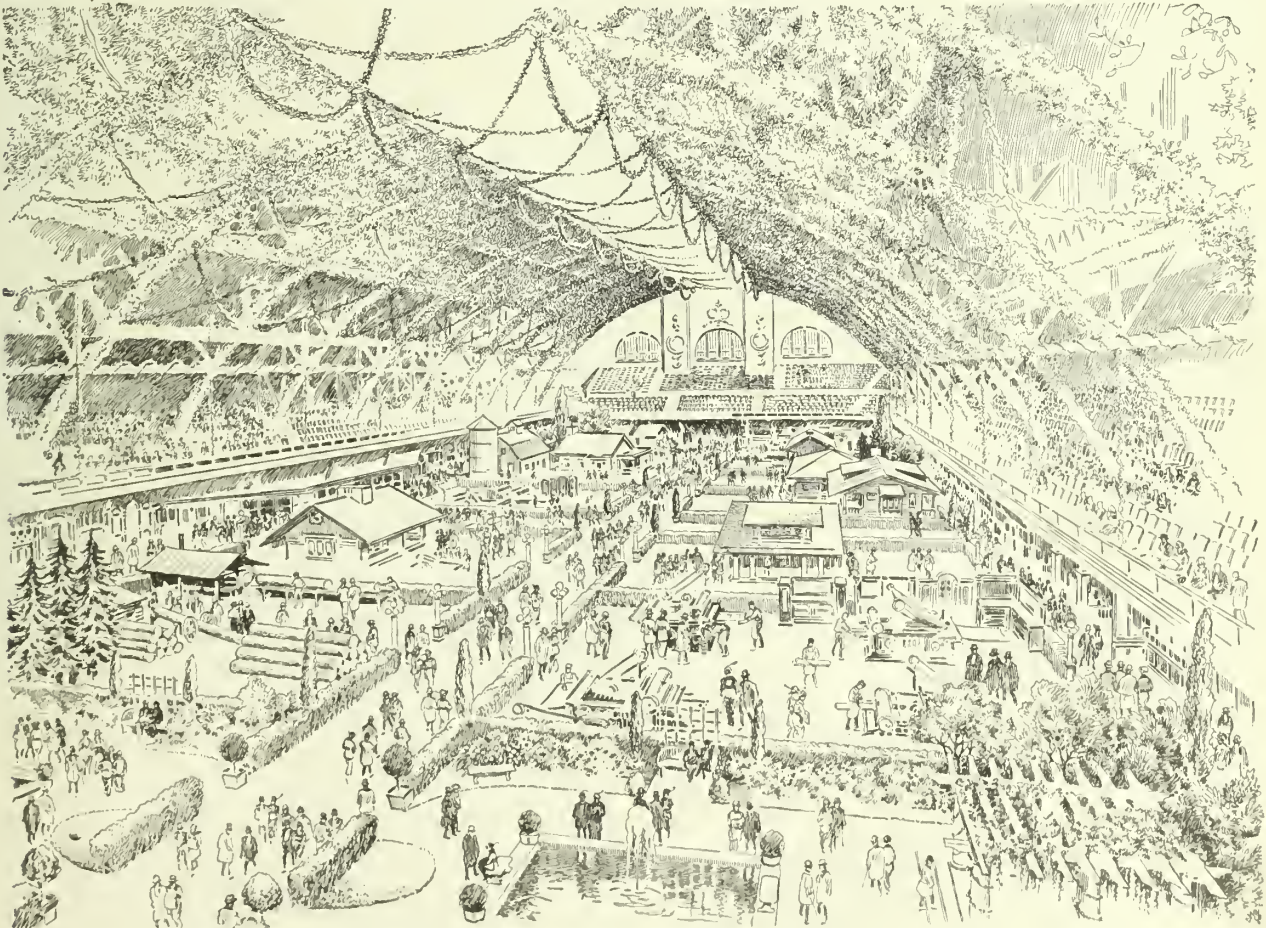
Logan & Co. have succeeded Logan & Nichols, contractors, Harlowton, Mont., Mr. Nichols retiring.

City Engineer Morgan R. Butler of Waukesha, Wis., heads a newly organized company, at Waukesha, capitalized

### FOREST PRODUCTS EXPOSITION, INTERIOR OF THE COLISEUM, CHICAGO.

The Forest Products Exposition, held at Chicago in the coliseum, April 30 to May 9, and at New York in the Grand Central Palace May 21 to 30 inclusive, gives every assurance of being the most representative, comprehensive, attractive and result-producing pioneer industrial exposition ever held

and efficiency methods, visualization of the magnitude of the industry, the attractive and appropriate architectural and decorative scheme, the operating processes of manufacture and the various potent elements for attracting special and general attendance.



in this country. This impression is gained from the actual representation, association and individual exhibits, showing every branch of the wood industry of America and from every section of the country. Manufacturers, specialists, wood-working machinery and apparatus, treatment and uses of wood, forestry welfare work in the lumber regions, scientific

The all-important question of attendance is attracting the attention and discussion of everyone in any way concerned in the outcome of the forest products exposition, both as a "show" and as a logical and result-producing factor in the industry. Manager George S. Wood covers the subject in a general reply to numerous inquiries from various sources.



at \$15,000, to be known as the Butler Construction Co. Mr. Butler, H. J. Frame and A. L. Blackstone are the incorporators. The concern will specialize in street improvement work, sewer construction and general municipal undertakings.

Henry Peterson, contractor, of Goodhue, Minn., recently secured a patent on an improved concrete mixer. The improvement in the machine is a proportioner, which is operated in such a way that the exact amount of sand and cement to be used in the mixture can be obtained.

Fred Eul of Menasha, Wis., formerly of Eul & Arnold, has the Central street asphalt-macadam contract, Chippewa Falls, at \$14,654.

Stock of the Gibson Culvert Co., Fromberg, Mont., on sale at Red Lodge, Mont., was over subscribed. John Gibson, president, is arranging to build a plant at Trident.

The Builders' Exchange of the city of Vancouver, Canada, which moved into its new quarters at 401-405 Duncan building, April 1, 1914, has elected the following officers and directors for 1914: J. L. Skene, president; W. M. Horie, vice president; T. J. Madlen, vice president; W. N. O'Neill, treasurer; W. Hamilton-Lindsay, secretary; Messrs. T. G. Bird, E. S. Booker, J. O. Perfect, T. Borgford, A. E. Lee, T. P. Morehead, D. H. Wilkie, J. G. Anderson, J. R. Wartman, H. N. Boulbee, E. G. Cullen, A. P. Bogardus, P. E. Ritchie, J. McD. Douglas, and W. O. Marble, directors.

The Ellis-Brandley Hardware Co., of Three Forks, Mont., are planning to build more store and warehouse room in the near future. Within the next ten days they will start the foundation for a building 24x75 feet, extending their present store.

J. W. Lewis, contractor, is giving Crookston, Minn., a new industry, The Lewis Sash & Door factory, which has started business in Highland Park. A portion of the equipment is installed and a larger engine which will furnish both power and light will be installed in a short time. Mr. Lee says he will make a specialty of rush orders.

Former Alderman H. M. Guenser of Bowlus, Minn., is now a brick manufacturer. He says prospects for a busy season are excellent.

Farmers' & Merchants' Lumber Co.; place of business, Lanesboro, Minn., incorporated; lumber and building materials. Capital \$25,000; incorporators: A. G. Austin, H. O. Benson, C. L. Nelson, H. A. Bakke and O. M. Sletvold.

Good Thunder Electric Co., Good Thunder, Minn., incorporated, leasing and selling electric current for light, heat and power; capital 10,000 shares; incorporators: R. L. Houk, E. F. Ulrich, E. W. O'Neill, F. H. Griffin and F. H. Mordock.

Des Moines Clay Co. is successor to the Des Moines Clay Manufacturing Co., Acme Roofing & Tile Co., and Goodman-McCormick Co., officers: F. C. Hubbell, president; Leon Goodman, vice president; I. M. Earle, secretary; C. C. McCormick, treasurer and sales manager; offices, 514 Hubbell

Charles J. Swift of Riverside, Iowa, has been appointed manager of the Dysart Brick & Tile Co., Dysart, Iowa. Present plans are for a maximum capacity during the present year.

Edward Charles, superintendent of the Butler Coons Contracting Co., at Floodwood has returned to Hibbing after an operation at Rochester, and is recovering.

Kenneth B. Fiske, representing the Scully Steel & Iron Co.'s products, Chicago, has recently located in Spokane, at 415 Hyde building. In addition to the above line, Mr. Fiske has also taken the agency for the American 3-Way Prism Co., of Chicago.

Walter G. Fox, representing the Juneau Investment Co., publishers of the Juneau city directory, Juneau, Alaska, has been in Seattle calling on the trade interested in business in Southern Alaska. The new directory is to come out the latter part of April and will contain a complete roster of inhabitants in Juneau and surrounding towns.

#### NEW FIRMS INCORPORATED.

Minn., Willmar—Kandiyo County Silo Co., M. Peterson, president; \$10,000. Iowa, Waterloo—Elk Run Sand and Gravel Co., C. C. Volker, president; \$5,000. Iowa, Marble Rock—Farmers Elevator Co., Mat Standt; \$3,000. Minn., St. Paul—St. Paul Lumber and Material Co., R. J. Petry, L. H. and W. B. Sommer; \$50,000.

Dunn Mfg. Company, incorporated, Mankato, Minn.; manufacturing locks, bolts, catches and hinges for doors, etc.; capital, \$25,000; Andrew C. Dunn, D. L. Coon, J. B. Nelson, Chas. G. Northrup and C. E. Hall.

Doran Hardware Company, incorporated, Doran, Minn.; manufacturing and dealing in hardware; capital, \$10,000; Robt. Wilson, C. W. Davis and A. N. Wilson.

Iowa, Iowa City—Western Construction Co., F. R. Hoar; \$20,000. Iowa, Fort Dodge, East End Lumber & Coal Co. Minn., Mankato, Dunn Mfg. Co., J. B. Nelson; \$10,000; S. D. Florence, Dexter. Fuller Telephone Co., Thos. N. Hagen, S. D., Highmore, Douglass Valley Telephone Co., Phillip Burheim; \$4,500. Mont., Scooby, Scooby Electric Light Co., Gustav Ole; \$10,000. Mont., Poplar, Poplar Electric Co., R. E. Patch; \$25,000. Mont., Miles City, Olive Garage Co., H. W. Titus; \$20,000. Mont., Ismay, The Ismay, Eklaka Southern Traction Co., Wm. Fulton and others; \$500,000.

#### ARCHITECTS AND ENGINEERS.

Arrangements for the April meeting of the American Institute of Electrical Engineers are as follows: Monday evening, April 13, 8 p. m., Auditorium, main engineering building, university of Minnesota. A. L. Abbott, paper on the "Lighting of the Gordon-Ferguson Building in St. Paul." C. M. Converse, on "Show Window Lighting." R. B. Wallace will give the results of an "Efficiency Test on the Semi-Indirect Lighting Units used in the Gordon-Ferguson Building." These talks will be illustrated by a number of lantern slides. The program is one of the best arranged for this year, and action is to be taken on the proposed amendment to the by-laws. A large attendance is expected.

Wm. D. Gates, of Chicago, secretary of the National Terra Cotta Society, will give an illustrated lecture on Terra Cotta and Pottery, at the rooms of the Minneapolis Architectural Club, Meyer's Arcade, April 14, at 8:15 p. m. A joint meeting of the Minneapolis Architectural Club and the Gargoyle Club of St. Paul will be held at that time. Moving pictures and lecture on "Brick Making," April 21.

City Engineer H. B. Grant of Deer Lodge, Mont., returned recently from a trip to his farm in Alberta.

W. C. Buck, Minneapolis, has been engaged as consulting engineer, to prepare plans for an electric light plant at Comfrey, Minn.

Fred F. Willson & Co., architects, Bozeman, Mont., were commissioned to furnish the plans for the concrete fireproof building at Anaconda for the Daly Banking & Trust Co.; also plans for the residence of Dr. J. F. Spelman, Anaconda.

H. W. Carr, architect, Green Bay, is making the plans for the St. Francis parsonage.

Architect Law of Madison, Wis., has plans for the Masonic Temple at Elkhorn, Wis. completed.

C. E. Olson, Ames graduate, was appointed county engineer at Grinnell, Iowa.

J. E. Mills, architect, Detroit, Mich., will submit plans at West Liberty, Iowa, for the Masonic Temple.

G. M. Sergeant, engineer, Wisconsin highway commission, left Ashland recently to survey a site for a bridge over White River.

Architect Reamer, who designed Old Faithful Inn and Canyon Hotel, Yellowstone Park, was called to Mammoth Hot Springs, from Boston recently by telegram from Huntley Child. Mr. Reamer is associated with the New York, New Haven & Hartford Railroad Co. and has offices in the building occupied by that company in Boston. He spent 17 months in the park when supervising the construction of the Canyon hotel, the longest time he ever spent so far from railroads and other signs of civilization. Evidently Mr. Child has some plans under contemplation for this year although he had announced that no new buildings or extensive improvements would be done this year. Mammoth hotel was greatly improved and enlarged last year.

Joseph D. Livermore, of Chicago, has opened an office in room 324 Paulton block, Sioux Falls, S. D., for the practice of architecture. Mr. Livermore is a graduate of Armour Institute of Technology, Chicago, and for four years was in some of Chicago's best architectural offices. In 1910 he went to Europe for study.

C. E. Fiers, in charge of the East Grand Forks city lighting plant, attended the annual meeting of the Minnesota Electrical Association.

A. E. Toenges, of Hibbing, who was engineer at the Har-old mine for eighteen months, resigned his position to accept a position as civil engineer with the Duluth, South Shore & Atlantic Railway Co.

The pipe organ firm of Vogelpohl & Spaeth has dissolved and will be continued hereafter by Mr. Vogelpohl and his sons, H. A. and C. E. The new firm name will be H. H. Vogelpohl & Sons. They have started immediately for expansion. The factory will be enlarged and new machinery purchased. A number of contracts for organs already are booked. One has just been shipped to Milwaukee, Wis., and another will be ready shortly, to ship to Ellsworth, Kansas.

G. H. Randall, city engineer at Oshkosh, was elected president of the engineering society of Wisconsin for the coming year, to succeed John D. Mack of Madison. A S. Smith, member of the engineering department of the railroad commission, spoke of the significance of road maintenance. H. L. Thorkelson, head of the steam engineering department of the state university, W. E. Miller, F. A. Kartak, J. C. White, United States engineers in charge of the construction of the harbor improvements at Superior and Duluth, W. G. Hoyt, F. G. Simmons and other experts gave important addresses on subjects of state-wide interest.

Robert G. McDowell & Co. has just opened up an architect's office at 319-321 Good block, Des Moines, Iowa, and would be pleased to receive samples and catalogues.



# The Turner Mushroom System Reinforced Concrete Flat Slab Construction

[Patented]



This is one of the many new manufactories in Minneapolis, the McLoughlin-Gormley-King Spice factory, southeast; plans by Bell, Tyrie & Chapman; R. J. Cheney Co., general contractors; Turner mushroom system of reinforced concrete used.



interior of the McLoughlin-Gormley-King Spice Factory.  
Minneapolis, Minn.

## Important Decision

By a decision just rendered in a suit brought on a patent previously granted to cover wire netting in the lower layer of the slab, an entirely different device from that covered in Mr. Turner's patent No. 1,003,384, the pretended claims of Mr. Turner's imitators have been set aside.

It was the apparent belief of the plaintiff, acting upon the advice of his attorneys, that under the patent he had bought, although it had not been tried commercially, it would be possible to construct flat slab buildings after the manner of Turner and escape paying a royalty to Turner, and perhaps force Turner to pay tribute to him.

The Mushroom System is the original reinforced concrete flat slab system, and is the only flat slab on the market today. C. A. P. Turner, the inventor of the **Mushroom Flat Slab System**, has patents which are broad and cover the basic elements of the **Circumferential Cantilever Flat Slab Construction**.

Mr. Turner has in his employ at the present time five of the best known and most able firms of patent attorneys in the United States. All infringers are being prosecuted; therefore,

**OWNERS PROTECT YOUR INTERESTS** by demanding that your flat slab designers furnish an infringement bond of an amount equal to the cost of your building, for the reason that the patent monopoly covers the right to use. Demand a bond for a five-year term and make yourself safe.

## Record

The number of square feet of Mushroom System floors built each year has practically doubled that of the preceding year. This gain has been consistent since the flat slab was first originated.

There has never been an accident or failure in the erection of between one and two thousand Mushroom System buildings.

## Service

Let our Engineering and Estimating Departments co-operate with you when it comes to reinforced concrete.

The economy, permanence and neat appearance of the **MUSHROOM SYSTEM** assures satisfaction with the completed building.

For designs, estimates and suggestions embodying the best of our long experience, you have only to consult our Engineers, without any obligation on your part.

Make the concrete construction in your building secure by utilizing the long experience, right design and efficient service behind the Mushroom System.

For Further Information Write to

# C. A. P. TURNER

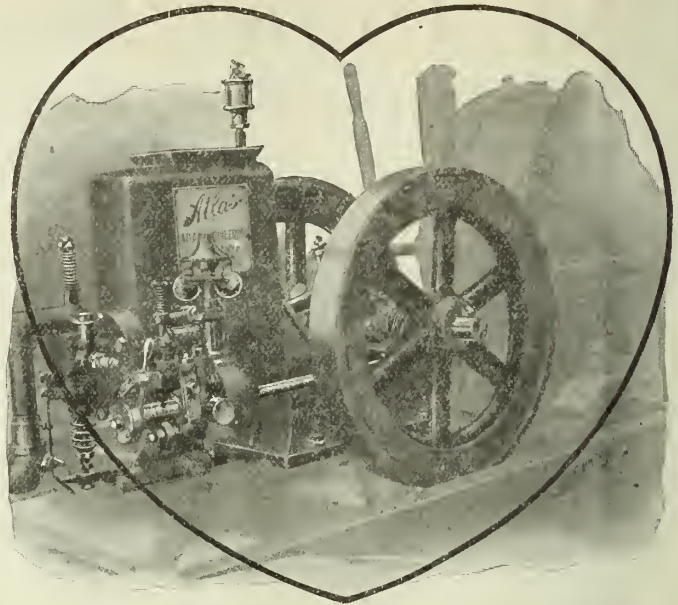
*Consulting and Contracting Engineer*

MAIN OFFICE: MINNEAPOLIS, MINN.

SIXTH FLOOR, JEWELERS EXCHANGE

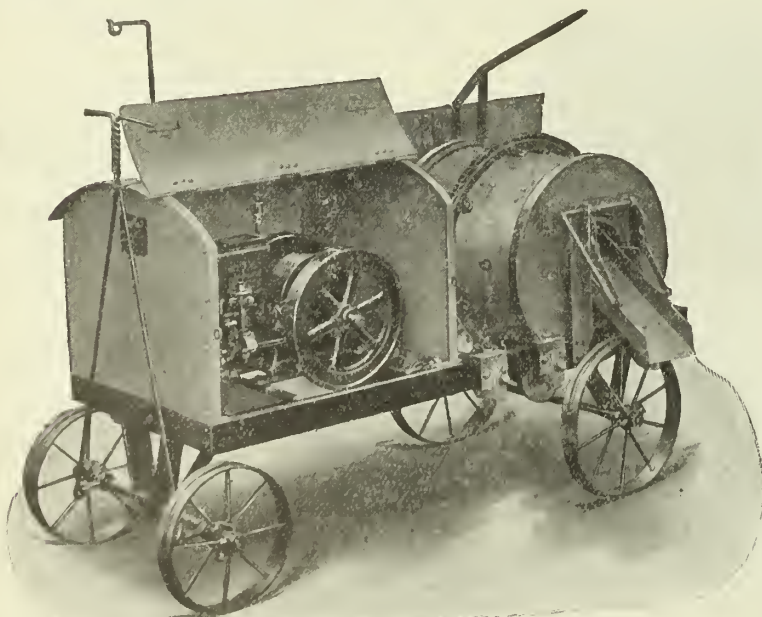


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## MINNEAPOLIS, MINN.

Office: 912 Lumber Exchange.  
Phones: N. W. 3902. T. S. 2134.  
Please telephone news not later than Wednesday.

Items marked with asterisks not run in Daily Sheets.

### BUILDING PERMITS.

Harry Yost, 2135-37 N. 3d st., 2-story frame flats (4); G. G. Chamberlain, builder.....	5,000
E. G. Rochat, 1910-12 3d av. S., 3-story brick apartments (19); Anderson, Nelson Const. Co., builders.....	35,000
Anderson-Nelson Const. Co., owners and builders, 1807-09 1st av. S., 3-story brick apartments (19).....	35,000
Minn. Mazda Lamp Works, 801-23 Broadway st. NE., installing tank for sprinkler purposes; Saml. Austin & Son Co., builders.....	3,500
J. B. Peterson and C. W. Briggs, 2901-11 S. James av., 3-story brick apartments (13); contract not let.....	33,000
Edna D. Kruse, 45-55 S. 7th st., 1-story tile and steel addition on roof of Radisson Hotel.....	4,000
C. H. Fagerstrom, 3812 Bloom av., 1-story plaster veneer dwl.....	3,000
Olaf Wold, 2307 N. Irving av., 1-story brick veneer dwl.....	2,100
Carl Johnson, 3412 21st av. S., 2-story plaster veneer duplex.....	3,000
Am. Const. Co., 3543 N. 16th st., 1½-story frame dwl.; Am. Const. Co., builders.....	2,000
American Construction Co., 3743 N. Washington av., 1½-story frame dwl.; American Construction Co., builders.....	2,000
W. H. Ryerse, 4030 Wentworth av., 1½-story plaster veneer dwl.; contract not let.....	3,000
Victor Bjorkland, 3820 17th av. S., 1½-story plaster veneer dwl.....	2,500
Dan. Egan, 126-28 Washington av. N., stone foundation....	1,500
Paul C. Hecker, 4501 45th av. S.....	2,100
Wm. A. Hughes, 1901 19th av. NE., 1-story frame dwl....	2,185
Inger Steen, 3622 Lyndale av. N., 1½-story frame dwl.....	2,000
Thos. J. Swift, 4322 1st av. S., 1½-story plaster veneer and frame dwl.....	2,600
Julia F. Atkinson, 4049 Park av., 1½-story frame dwl. and chicken house.....	2,550
August K. Dahlburg, 3800 N. Emerson av., 1½-story plaster veneer dwl.....	2,200
Mrs. Anna B. Krumiede, 4123 Nokomis av., 1½-story frame dwl.....	2,750
H. W. Ackley, 942 15th av. S., concrete foundation, alterations and repairs.....	2,000
Lawrence Haller, 3310 N. Knox av., 1½-story plaster veneer dwl.....	2,350
Mathias Zihwen, 2207 N. Thomas av., 1½-story plaster veneer dwl.....	2,550
Mary G. Martin, 1409 15th av. N., 1½-story frame dwl....	3,000
Joseph M. Baltuff Building Co., owner and builder, 2010 N. Queen av., 1½-story frame dwl.....	2,395
Joseph M. Baltuff Building Co., owner and builder, 3121 N. Knox av., 1½-story frame dwl.....	2,150
Joseph M. Baltuff Building Co., owner and builder, 4421 Stevens av., 1½-story frame dwl.....	2,425
Joseph M. Baltuff Building Co., owner and builder, 2626 Grand st. NE., 1½-story frame dwl.....	2,230
Joseph M. Baltuff Building Co., owner and builder, 4225 Columbus av., 1½-story frame dwl.....	2,105
Joseph M. Baltuff Building Co., owner and builder, 3901 N. Queen av., 1½-story frame dwl.....	2,200
Joseph M. Baltuff Building Co., owner and builder, 2701 Brighton av., 1-story frame dwl.....	1,450
Northwestern Fuel Co., Aldrich av. S. between 28th and 29th st., concrete block office, frame coal elevator, also retaining walls.....	8,450
F. D. Harkins, 4004 Pleasant av., 1½-story frame dwl.....	3,300
Chas. S. Wing, 2910 N. Sheridan av., 1½-story frame dwl....	2,200
J. A. Fetterley, 4333 S. Bryant av., 1½-story plaster veneer dwl.....	3,000
J. A. Fetterley, 4329 Bryant av. S., 1½-story plaster veneer dwl.....	3,000
J. A. Fetterley, 4031 Pleasant av., 1½-story plaster veneer dwl.....	3,000
M. B. Cutter, 4328 S. Colfax av., 1-story plaster veneer dwl.....	3,850
T. J. Long, 3509 22d av. S., 1-story plaster veneer dwl.....	3,000
J. E. Gale, 2633-35 Nicollet av., 2-story brick veneer stores (2) and flats (2); contract not let.....	7,500
Anton Nelson, 3405-07 4th av. S., 2-story plaster veneer duplex.....	4,500
Mark M. Purcell, 2611 N. Humboldt av., 1½-story frame dwl.; F. O. Anderson, builder.....	2,400
Dawson & Wright, 3221-23 S. Emerson av., 2-story brick veneer flats (4).....	6,000
Oluf Thompson, 3600 15th av. S., 1½-story frame dwl.....	2,000
G. M. Jones, 2325 S. Newton av., 2-story brick and plaster dwl., also garage; Wm. White, builder.....	7,000
Mrs. A. L. Simmons, 222 N. Washington av., 2-story frame addition to dwl. and alterations.....	2,300
Anna S. Day, 3542-44 13th av. S., 2-story plaster veneer duplex.....	3,000
The Earl Undertaking Co., 731-33 E. Franklin av., 2-story brick undertaker's establishment; A. A. Swan, builder....	12,000
P. E. Pilgram, owner and builder, 1816-18 N. Fremont av., 2-story brick flats (4).....	7,500
Nathan A. Hinitz, 818 N. Fremont av., 2-story frame duplex; D. Addis, builder.....	4,000
Western Electric Co., 114 N. 3d st., 1-story brick addition to warehouse; Struchen & Nelson Const. Co., St. Paul, builders.....	2,400

Conklin & Zonne Co., agents, 300-02 Hennepin av., enclosures for elevators; Minneapolis Ornamental Iron Co., builders.....	4,500
Carl Lillemoen, 2622 S. 7th st., 2-story plaster veneer duplex.....	5,000
J. B. Liljégren, 4118 Nicollet av., 1-story plaster veneer dwl.; A. G. Lundquist, builder.....	2,200
Thos. Peebles & Co., 707-13 8th av. SE., 3-story brick flats (13); Thos. Peebles & Co., builders.....	22,000
Paul Bloomberg, 911 7th av. S., 3-story brick apartments (25); Chas. E. Hagstrom & Co., builders.....	40,000

Chapman & Magney, architect, Essex building, are preparing plans for the \$60,000 addition to Swedish hospital, 10th av. and 8th st. S.; 4-story, reinforced concrete, 65x70, finished basement, composition roof, concrete foundation, steam heat, wiring, special plumbing, shower baths, vacuum cleaner system, electric passenger elevator, private rooms, maternity department with complete modern equipment, sun-room, screen porches, ventilating system, tile and composition floors, hardwood trim, faced brick; plans out in four weeks, mechanical equipment same; architect will let work.

\*Kirby T. Snyder, architect, 751 Plymouth building, has plans out, architect and owner taking figures, for 2-story and basement store and flat building for T. K. Kelly investment Co., 26th and Nicollet; 73.6x162.8, full basement, nine stores, seventeen flats, four office suites; press brick, cut stone, common brick, fireproofing, metal lath, steel ceiling, structural and ornamental iron, marquises, thirteen baths, tile and composition floors, maple floors, hard plaster, wiring, gas, 'phone, composition roof, oak interior, prism and plate glass, gas ranges, ice boxes, wall bed; \$35,000.

Glenn L. Saxton, architect, Plymouth building, has furnished plans for dwellings; bungalow, Arthur Seivers, Clinton, Wis., frame, B. T. 27x38, \$3,000; J. H. Queal Lumber Co., Sioux City, Iowa, frame, B. T., 32x28, \$5,000; Hugo E. Modeau, 2230 W. Superior, Duluth, frame bungalow, B. T., \$3,000; Andrew Stearns, 2525 Brighton av. NE., Minneapolis, frame B. T., \$2,200; E. N. Nelson, Willmar, Minn., cottage, \$3,000; Edgar Wall, Fergus Falls, frame, B. T., 24x30, \$6,000; D. I. Remington, Walnut Grove, Minn., bungalow, frame, \$3,000.

\*Kirby T. Snyder, architect, Plymouth building, is preparing plans for a residence he will build, 41st and Lyndale; 2-story and basement, 40x63, exterior, matt faced brick, cut stone, concrete basement, first floor and second floor and roof, fireproof; structural steel, quarter-sawn oak, interior finish, oak and composition floors, marble, tile, bronze grilles, electric wiring and fixtures, ornamental plaster, two fireplaces, basement garage, plate glass, hot water heat, work to start about May.

Haugan & Newstrom, architects, Iron block, have furnished plans for a county house, Mound, Minnetonka, for C. B. Brambach, Security Bank, frame, fireplace, rough siding, stained, screen porches, owner will let all work; also plans for a country house, Orchard Gardens, for E. W. Peck, St. secretary, Y. M. C. A., rough siding, stained, leaded glass, contract to N. Ananson; work started on F. F. Lenhart building for Bull Tractor, 27th and University SE., owner will let all work.

Work will begin soon on the foundation and superstructure of the Hennepin av. M. E. church, Lowry Hill, to be pushed to completion; Pike & Cook Co., general contractors; mechanical equipment plans ready soon and contracts let; Bedford stone, brick backing, Rumford tile interior walls for auditorium; Caen stone trim, gymnasium, Cathedral glass and memorial windows, organ, slate roof, Hewitt & Brown, architects, 716 4th av. S.

C. S. Sedgwick, architect, Lumber Exchange, has furnished plans for a Lutheran church, Minnetonka, Minn., Rev. B. B. Johnson, pastor; frame, 34x40, furnace heat, \$6,000; contract not let; also plans for cottage, Winnipeg, Wm. W. Barr, modern, fireplace, sleeping porch, \$6,000; also frame cottage, hot water heat, \$3,000, Cudahy, Wis., Geo. A. Powers; frame cottage, hot water heat, modern, \$3,500; Geo. C. Buckley, Ortonville, Minn.

Store and apartment building, store and 11 apartments; 3-story and basement, 42x88; \$16,000, will be built at 12th and Harmon place; architect Rose Engineering Co., 742 Plymouth building, by A. H. Volk, 1118 Harmon place; plans will be completed next week; face and common brick, stone trim, reinforced concrete slab, tar and gravel roof, 2 metal skylights, galvanized iron cornice structural and ornamental iron.

Norwegian Good Templars will build a 3-story hall and



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RATE FOR NOTICES in this department ment—15c per line each insertion. No discounts allowed. Several insertions are customary to insure full and fair competition.

PRINTED SLIPS are furnished to officials, architects and others interested, for distribution by them, without extra charge.

PROFITABLE INVESTMENT—it has been the experience of those who have used this medium that by investing a few dollars they have saved hundreds.

COPY RECEIVED up to Friday, 10 a. m., will be published in the paper, delivered to subscribers on Saturday, but should reach the publication office, Lumber Exchange, Minneapolis, earlier in the week, when possible.

LATE NOTICES Friday morning can be transmitted by long distance telephone.

### NOTICE TO ROAD CONTRACTORS. Cambridge, Minnesota.

Sealed bids will be received at the County Auditor's office of Isanti County, at Cambridge, Minnesota, until one o'clock, P. M., April 28th, 1914, for the construction of two and one-half miles each of jobs No. 2, 3 and 4, being of a total length of seven and one-half miles consisting of the following:

Grading, Turnpiking, Ditching, Grubbing and Clearing.

Plans and specifications may be seen at above named office or at the office of the State Highway Commission at St. Paul on or after April 15th, 1914.

Each proposal must be accompanied by cash or certified check for not less than 5 per cent of the amount of the bid, payable to the County Treasurer of said County.

All bids must be in accordance with instructions to bidders and upon the blank forms furnished by the District Engineer or County Auditor at Cambridge, Minnesota.

The County Board reserves the right to reject any or all bids.

G. C. SMITH,  
County Auditor.

### NOTICE TO CONTRACTORS. School, Toledo, Iowa.

J. H. Ross, Secretary of the Independent School District of Toledo, Iowa, will receive sealed bids until 2:30 o'clock P. M. on May 4, 1914, for the construction of a new school building, for the installation of a heating and ventilating system, for plumbing and electric wiring for said school building.

Plans and specifications may be obtained of Proudfoot, Bird & Rawson, Architects, Des Moines, Iowa.

(Continued on page 16.)

## PROFESSIONAL DIRECTORY

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MINNEAPOLIS

NORTHWESTERN MANAGERS

**NATIONAL SURETY COMPANY OF NEW YORK.**

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lodge structure, Franklin and 17th av. S. this summer; cost \$23,000; two halls, janitor's apartments; stores ground floor; gymnasium, baths; auditorium, 870 capacity; committeemen in charge includes: Iver Olsad, 1300 Washington av. S., Theo. Wangness, 3029 28th av. S.; St. Olaf, Norga and other lodges, owners.

C. E. Hagstrom & Co., Plymouth building, have contract to build 25-flat building for Paul Bloomberg; brick; Bedford stone, tar and gravel roof, tile coping, metal weather strips, tile vestibules, tile kitchenettes and baths, chutes, birch finish, wall beds; vapor heat, modern, \$35,000; see H. M. McElroy, 532 Andrus block.

Long, Lamoreaux & Long, architects, 830 Hennepin, have plans out, figures in 10 days, for Slocum-Berggrem Grocery Co. warehouse; also, L. C. Lamoreaux flats, upper Hennepin; architects take figures on both; mechanical equipment later; plans being finished for new stairway to basement, Dyckman hotel, concrete, marble, ornamental iron.

Glenn L. Saxton, architect, Plymouth building has furnished plans for two frame rough cast cottages, \$2,500 and \$2,000, for L. E. Hellner, 316 S. 7th; H. H. Henneman, 1819 Lyndale S., rough cast and shingles, oak and pine trim, \$3,800; St. Hilaire Lumber Co., 112 Lumber Exchange, cottage, B. T. \$2,000.

Haugan & Newstrom, architects, Iron block, 4th and 4th S., have plans out this week for the Osler Realty building, 11th av. S., and Franklin, architects, taking figures, 2-story brick, modern, 2 stores and shop, offices, tile floor drug store, pitch and gravel roof, plumbing, steam heat and wiring.

C. S. Sedgwick, architect, Lumber Exchange, has furnished plans for a modern residence, Lake of the Isles for G. W. Jones, Minneapolis Electric Construction Co.; brick veneer and cement stucco, 2-story, modern, hot water heat, sleeping porch, sun-room, fireplace; \$6,500; owner lets all work.

Wm. M. Kenyon and Maurice F. Maine, architects, Metropolitan block, have plans out for First National Bank, Owatonna, Minn., 2-story, brick, stone, bank and club rooms above, modern equipment; architects taking figures on material; G. C. probably local.

\*C. A. Davis, 305 Kasota block, has prepared plans for 4-family flat, 2105 Bloomington av. S., for David Berry, one hot water heating plant, plumbing, modern, electric light, cement stucco exterior, hardwood floors and finish, gas and laundry trays, \$8,000.

\*E. H. Sund, architect, Andrus building, is preparing plans for a surgical hospital at Dawson, Minn., for Drs. Stemsrud & Johnson; tile, 2-story, full basement, steam heat, plumbing, wiring, 35x71, plans in three weeks; figures by architect.

Bids received until 3 p. m., April 14, at 217 City Hall, for furnishing engineering department of city, about 10,000 feet or part, granite curb, specifications with purchasing agent.

County board will open bids 11 a. m., April 27, for macadam road 1 1/4 miles, Minnetonka Beach to Spring Park, estimated cost \$12,500; graveling 8 miles, Lake st. blvd., Calhoun to Lake Minnetonka, \$10,000.

\*J. E. Bell, architect, 312 Security Bank building, is preparing plans for city hall and jail, Breckenridge, Minn.; brick 2-story and basement, 50x100, plumbing, heating and wiring, \$25,000.

\*Bids received by E. H. Sund, architect, Andrus building, until 3 p. m., April 15, for Old People's Home, Beresford, S. D. See official advertisement in this week's Bulletin.

\*Contract for two dwellings, Waseca, Minn., awarded to Erick Sjostrand, Minneapolis, frame, stucco, modern, Haley & Johnson, architects, Plymouth building.

J. & W. A. Elliott Co., Lumber Exchange, have contract for the brick warehouse at 240 6th av. S., for the Skellet Co., cost \$25,000; excavation begun.

Site for John Erickson school building was bought by school board at 41st av. and E. 43d st.; board will buy land for addition to South high.

Maurice Schumacher, 39 Dell place, has contract for alterations and improvements at 314 Nicollet for the Anglo-American investment Co.

The \$350,000 malt house and elevator of Wm. Rahr & Sons Co., Manitowoc, Wis., will be at Grand st. and 31st av. NE., near Gould elevator.

\*Work will begin soon on 300-bed general hospital for United Church Hospital Association near Riverside Park and Thomas hospital.

Bids received by school board to 2 p. m., April 9, for plumbing material; specifications at 407 City Hall; check for 10 per cent.

Bids received until 11 a. m., April 27, for repairing 46,210 feet of state highway 1, Hennepin county. A. P. Erickson, auditor.

Floating band stand will be built at Lake Harriet.

Tile and steel addition and improvements are being made

on the roof of the Radisson; cost \$4,000, 1-story, 123x36, day labor.

Anton Nelson is building a 2-story plaster veneer duplex at 3405 4th av. S., 24x48, modern, hot water heat, day labor.

Maurice Schumacher, general contractor, 39 Dell place, is rebuilding at the Witte factory, Nicollet Island, after fire.

\*Struchen-Nelson Co., St. Paul, have contract for 1-story, brick addition to Western Electric warehouse, 114 N. 3d.

Ground for city sewer and water department warehouse, 27th and Cedar has been purchased.

## ST. PAUL, MINN.

404 Scandinavian American Bank Building.  
Phone: N. W. Cedar 1683.

Mail or telephone news not later than Wednesday.

Items marked with asterisks not run in Daily Sheets.

### BUILDING PERMITS.

H. A. Kregel, 783 Carroll, 1 1/2-story frame dwl., Edmund near Lexington; H. A. Kregel, builder.....	2,200
August Heuer, Sherburne av., 1 1/2-story frame dwl., Aurora near Avon; Henry Tramest, builder.....	2,150
W. E. Jernegan, builder, 1295 Van Buren, 1 1/2-story frame dwl., Blair near Simpson.....	2,600
W. E. Jernegan, builder, 1295 Van Buren, 1 1/2-story frame dwl., Blair near Simpson.....	2,400
W. E. Jernegan, 1 1/2-story frame dwl., Blair near Pascal; W. E. Jernegan, builder.....	2,400
Chas. Hochmuth, builder, 122 E. Winnifred, alterations and repairs, Concord near Robert.....	2,000
J. O. Weaver, St. Paul, 2-story frame dwl., Ashland near Snelling; Carl Nelson, builder.....	6,200
F. J. Watson, builder, 1 Iris pl., 2-story frame dwl., Roy near University.....	2,500
John A. Hart, 2-story frame duplex, University near Aldine and Herschel; Wm. McKay, builder.....	4,000
John Ringheim, 319 Andrus bldg., Minneapolis, 2-story frame and stucco (4 flats), 2111 Selby near Cleveland and Finn; Frank Lower, builder.....	8,000
John Ringheim, Minneapolis, 2-story frame (4 flats), 2117 Selby near Cleveland; Frank Lower, builder.....	8,000
P. A. Lundgren, 1046 Edgerton, 1 1/2-story frame dwl., Jenks near Jessie; Nels Jackson, builder.....	2,000
Nels Hanson, 585 E. Cook, 2-story frame dwl., Edgerton near Cook; Nels Jackson, builder.....	3,000
John Ringheim, Minneapolis, 2-story frame and stucco (4-flat), 178 Finn near Sibley; Frank Lower, builder.....	8,000
C. Jorgenson, 767 Iglehart, 1 1/2-story frame dwl., Cottage near Mendota; L. Anderson, builder.....	2,600
Olaf A. Peterson, builder, 1248 Edgerton, 1 1/2-story frame dwl., Blair near Snelling.....	2,400
Rundquist & Dahlquist, 1693 Laurel, builder, 2-story frame duplex, Ashland near Aldine.....	4,000
Walter E. DeLano, 897 Dayton, 1 1/2-story frame dwl., Dayton near Victoria; L. James, builder.....	4,200
Metropolitan Investment Co., 1 1/2-story frame dwl., Hubbard near Hamline; E. Schmidt, builder.....	3,200
E. Schmidt, 1642 University, 1 1/2-story dwl., Charles near Victoria; C. Schmidt, builder.....	2,400
Standard Oil Co., 2-story brick and concrete garage, Commercial near 3d; W. J. Hoy Co., builders.....	18,000
R. W. Thatcher, 2-story frame dwl., Chellinsford near Doswell; O. Levin, builder.....	4,000
E. A. Benner, builder, 1858 Grand av., 1 1/2-story frame dwl., Portland near Wheeler.....	2,000
John Skarda, 1 1/2-story frame dwl., Rondo near Snelling; A. M. Decker, builder.....	2,400
John Skarda, 1 1/2-story frame dwl., Rondo near Snelling; A. M. Decker, builder.....	2,200
John Skarda, 1 1/2-story frame dwl., Rondo near Snelling; A. M. Decker, builder.....	2,200
Mary C. Hjorth, 1-story frame dwl., Edmund near Snelling; Carl Granstrom, builder.....	2,000
Mary C. Hjorth, 1-story frame dwl., Edmund near Snelling; Carl Granstrom, builder.....	2,000
Standard Oil Co., 1-story brick and concrete tank house, Commercial near 3d; W. J. Hoy Co., builders.....	4,200
Standard Oil Co., 3-story brick and concrete warehouse, Commercial near 3d; W. J. Hoy Co., builders.....	51,500
Peter Reiland, builder, 3010 Oxford, 1-story frame dwl., Capitol near Wheeler.....	2,400
Jno. McConnen, builder, 439 Beacon st., 2-story frame dwl., Fairview near University.....	4,000
O. Stendal, builder, 1656 Ashland, 2-story frame duplex, Ashland near Fry.....	4,000
Fred Swanstrom, builder, 1991 Blair, 1 1/2-story frame dwl., 654 Asbury near Blair.....	2,500
S. Pusks, 244 Grove, 2-story frame dwl., Grove near Temperance; Abe. Margoler, builder.....	2,750
Cushing & Driscoll, alterations and repairs, 365 to 373 Robert st.; Grant Const. Co., builders.....	38,000
Elizabeth Haxton, builder, 1851 Goodrich, 2-story frame dwl. (duplex), Dayton near Sydicade.....	3,500
Clara Schweitzer, builder, 467 St. Anthony, 1 1/2-story frame dwl., Rondo near St. Albans.....	3,500
R. L. Gould & Co., 500 Jackson, interior repairs, 500 Jackson near 9th; Strucher & Nelson, builder.....	3,500

Chas. Skooglund, general contractor, Ryan Annex, was awarded the construction of the Connell Commercial garage, W. 3d, 1-story, brick, cement, steel trusses, P. J. Linhoff, architect, Germania Life building, plumbing, heating and wiring not included; also has contract for Boston Ground Rent Co. building, 3d and Robert, plans by Thomas G. Holyoke, architect, Endicott building, L-shape, 2-story, brick, pl. h. and



# CONTRACTORS BONDS AND EMPLOYERS LIABILITY INSURANCE

EQUITABLE SURETY COMPANY  
Assets \$1,484,744.80  
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"NO RED TAPE OR DELAY" THE OCEAN ACCIDENT & GUARANTEE  
CORP. Assets 4,776,085.18

Hood & Penney Company, General Agents

PHOENIX BUILDING,  
Minneapolis  
Minn.

## PROPOSAL ADVERTISING FOR BIDS.

### NOTICE TO CONTRACTORS.

Sewers, Sumner, Iowa.

Sealed bids will be received by the Town Clerk of Sumner, Iowa, until 7:30 P. M., May 6, 1914, for the construction of the following sewers:

13,345 feet 8-inch sewer.

8,675 feet 10-inch sewer.

1,460 feet 12-inch sewer.

46 manholes.

16 flushtanks.

Disposal tank complete.

E. A. WISNER,  
Town Clerk.

M. TSCHIRGI & SONS,  
Cedar Rapids, Iowa,  
Engineers.

### NOTICE TO ROAD CONTRACTORS. Elbow Lake, Minn.

Sealed bids will be received at the County Auditor's office of Grant County, at Elbow Lake, Minn., until 10 o'clock, A. M., Thursday, April 23, 1914, for construction of jobs 1, 2 and 3, as follows:

Job No. 1: Station O to 242, length, 24,200 feet; 10,088 cubic yards grading; 10,550 lineal feet turnpiking; 5 12-inch corrugated metal culverts, total length 124 feet; 3 15-inch corrugated metal culverts, total length 81 feet; 8 concrete culverts, 67 cubic yards of concrete; 4-550 cubic yards of graveling; estimated cost \$6,189.

Job No. 2: Station 248 to 584; length, 33,436 feet; 3,974 cubic yards grading; 24,236 lineal feet turnpiking; 10 12-inch corrugated metal culverts, total length 257 feet; 4 concrete culverts, 28.12 cubic yards concrete; estimated cost, \$2,707.29.

Job No. 3: Station 722 to 909; length, 18,700 feet; 6,061 cubic yards grading; 8,700 lineal feet turnpiking; 6 12-inch corrugated metal culverts, total length, 154 feet; 2 15-inch corrugated metal culverts, total length 53 feet; 4 concrete culverts, 51.3 cubic yards concrete; estimated cost, \$2,793.70.

Plans and specifications may be seen at above named office, or at the office of the State Highway Commission at St. Paul, Minn.

Each proposal must be accompanied

by cash or certified check for not less than 5 per cent of the amount of the bid, payable to the County Treasurer of said Grant County.

All bids must be in accordance with instructions to bidders, and upon blanks furnished by the county auditor, or by the State Highway Commission at St. Paul, Minn.

The County Board reserves the right to reject any and all bids.

Dated April 1, 1914.

O. E. WOLD, County Auditor.

### NOTICE FOR BIDS.

For the Construction of Judicial Ditch  
No. 21, Beltrami and Marshall  
Counties.

Notice is hereby given that the undersigned Auditors of Beltrami and Marshall Counties, Minnesota, will on Tuesday, April 28, 1914, at 10.00 o'clock A. M., at the office of the Auditor of Beltrami County, in the court house in the City of Bemidji, Minnesota, receive sealed bids for the construction of Judicial Ditch No. 21, located in Townships 157 and 158, Ranges 36 to 42 inclusive, Beltrami and Marshall Counties, according to the plans and specifications of the Engineer now on file in the office of the Clerk of Court of Beltrami County. Said Ditch as surveyed by the engineer is about 220 miles long, and the work is estimated as follows:

2,297,171 cubic yards of excavation at 11c.....	\$252,688.81
134 miles of clearing right-of-way .....	14,942.52
193.75 miles of road leveling at \$125.00 .....	24,218.75
33 steel bridges from 10 to 45 feet long.....	20,000.00

Total ..... \$311,850.08

Width of base, about 175 miles of four feet, the balance from six to thirty feet.

Bids for the bridges will be received separate from the balance of the construction. Bids for the rest of the work will be received as one job, or for one or more sections of the work. Each bid must be accompanied by a certified check

on a National Bank or Trust Company for not less than 10 per cent of the total amount of the bid, which shall be forfeited if the successful bidder fails to enter into a contract, and execute a bond as provided by law. The successful bidder will be required to furnish a good and sufficient bond in the amount of the contract, conditional upon the faithful performance of said contract. No bid will be entertained that exceeds by 30 per cent the estimate of the engineer.

Bidders are requested to specify the time needed to complete the work.

The right to reject any or all bids is reserved.

The date for receiving said bids may be adjourned from time to time, until the work shall have all been taken.

G. W. WALKER,  
Engineer.

J. L. GEORGE,

Auditor Beltrami County.

A. G. LUNDGREN,

Auditor, Marshall County.

### PROPOSALS FOR BIDS.

Decorating Court House, Pipestone,  
Minnesota.

Sealed bids will be received at the County Auditor's office of Pipestone County, at Pipestone, Minn., until 3 p. m., Tuesday, April 28, 1914, for decorating the Pipestone County Court House, according to plans on file at the above office, at the office of the architect, Joseph D. Livermore, 324 Paulton Block, Sioux Falls, South Dakota, and at the office of the Improvement Bulletin, 912 Lumber Exchange, Minneapolis, Minn.

Each proposal must be accompanied by a certified check for \$150.00 as evidence of good faith, said check to be made payable to the Treasurer of Pipestone County.

The Board of County Commissioners reserve the right to reject any and all bids.

TAD BAILEY,  
County Auditor.

(Continued on page 17.)



SEND US YOUR PLANS  
Our figures cost nothing, and  
YOU WILL SAVE MONEY

## Don't Make a Mistake!

You Can Buy the Best Sheet Metal Work

such as Cornices, Steel Ceilings, Skylights,  
Ventilators, Gutters, Ridgings, etc., etc.,

Right Here at Home—No Wait, No Worry

ST. PAUL ROOFING, CORNICE  
and Ornament Co.  
ST. PAUL, MINN.



## PROPOSAL ADVERTISING FOR BIDS

## NOTICE TO BIDDERS.

Office of County Auditor, St. Louis County, Minnesota.

Notice is hereby given that sealed proposals will be received at the office of the County Auditor of St. Louis County, Minnesota, until 2 o'clock in the afternoon of Monday, April 27, A. D. 1914, for the construction of County Ditch Number Two (2) in said St. Louis County, involving the construction of approximately twenty-four (24) miles of main, branch and lateral ditches; the excavation of approximately two hundred five thousand five hundred (205,500) cubic yards of earth; the leveling and grading of approximately twenty-one and one-half (21½) miles of waste bank into roads; the furnishing and installing of fifty-seven (57) corrugated galvanized iron culverts, and the construction of twenty-four (24) small steel bridges. The said work is located in Townships Fifty-two (52) North, of Range Nineteen (19) West, and Fifty-three (53) North, of Range Nineteen (19) West, near Meadowlands Station on the line of the D. M. & N. Ry. Co. and extends approximately seven (7) miles south from said station. The estimated cost of said work, not including cost of right-of-way, is approximately Forty Thousand Five Hundred Seven Dollars (\$40,507).

Proposals will be received on one or more sections or schedules of said work, or any one or more of said construction jobs, or for the entire work as one job.

Each proposal must be accompanied by certified check made payable to the

County Auditor of St. Louis County, Minnesota, for not less than ten per cent (10%) of the amount of any bid, as a guarantee that the bidder will, if successful, promptly execute a satisfactory contract and furnish bond for the faithful performance of the work as required by the drawings and specifications for said work. Bidders submitting bids on different schedules or sections of the work will not be required to furnish a separate check with each proposal, but one check of ten per cent (10%) of the aggregate amount of bid submitted will be sufficient.

Only experienced and responsible bidders will be considered in awarding contract and evidence of such experience and responsibility will be required. The County Auditor reserves the right to reject any or all bids.

Proposals must be marked "Proposal for Constructing County Ditch Number Two in St. Louis County, Minnesota," and addressed to "O. Halden, County Auditor, Duluth, Minnesota."

All proposals must be based upon the specifications for said work which are part of the Engineer's Report in said proceedings and on file in the office of said County Auditor in the City of Duluth.

For further particulars, address the undersigned County Auditor, or E. K. Coe, Engineer in Charge, Court House, Duluth, Minnesota.

(Seal) ODIN HALDEN,  
County Auditor, St. Louis County,  
Minnesota.

Dated April 1, 1914.

## NOTICE TO BIDDERS IN HEATING, PLUMBING, ELECTRIC WIRING, WATER AND LIGHTING SYSTEMS.

Office of the County Auditor, April 2, 1914.

Sealed bids will be received at this office until Tuesday, April 28th, at ten o'clock A. M. at which time the said bids will be opened by the Board of County Commissioners of Freeborn County, for the doing of all work and labor and the furnishing of all materials for the installation of a heating plant, plumbing system, electric wiring, water and lighting system for the County Poor Farm Building of Freeborn County, Minn., located approximately four miles north of the City of Albert Lea. Plans and specifications for said separate systems are now on file at the office of the County Auditor at Albert Lea, Minn.

Separate bids only will be received for said separate systems and each bidder must accompany his bid with a certified check for not less than ten per cent of the amount thereof.

The successful bidder shall furnish a surety bond in a sum equal to the amount of the contract awarded to him, conditioned on the faithful performance of said contract.

The Board of County Commissioners reserves the right to reject any and all bids.

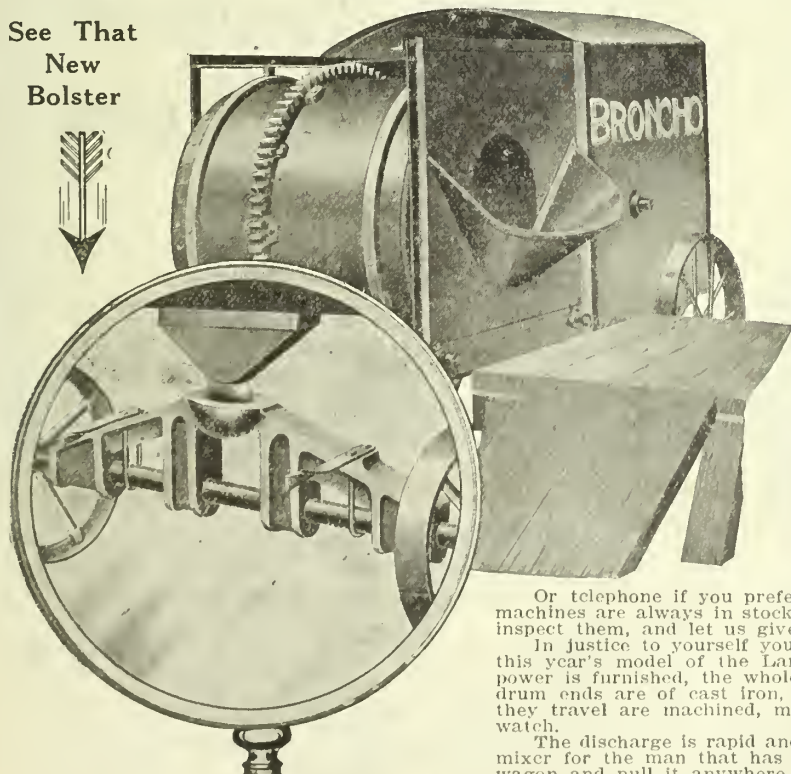
By order of the County Commissioner.

(Seal.) C. E. BRAINERD,  
County Auditor.

(Continued on page 18.)

## THE LANSING "BRONCHO" MIXER--1914 MODEL

See That  
New  
Bolster



A better machine this year than ever. No expense has been spared to make the 1914 BRONCHO the best mixer in its class on the market this year. It is the pioneer in this field and therefore has back of it more real experience and opportunity for perfection than any other.

Look at that front bolster.

The same substantial construction is found throughout the entire machine. No part is weaker in its respective place than the front bolster. That is why the BRONCHO has had such a wonderful sale—an honest article at an honest price. It stands up on the job and is equal to the strain of rough streets and country roads.

At least \$40 has been added to the cost of the BRONCHO this year, but the price remains the same.

A larger engine used, strength was added where strength was needed. Note also the new ball and socket fifth wheel which gives a full circle turn.

Why use big ponderous mixers on the small jobs and eat up all the profits, or why mix by hand and confine yourself to the small jobs that nobody else wants when you can get a machine like the BRONCHO at the price we are offering it?

It only costs you 1 cent—the price of a postal—to find out all about this machine.

Or telephone if you prefer, and our salesman will be out to see you. These machines are always in stock, and we would be pleased to have you come in and inspect them, and let us give you thorough demonstration.

In justice to yourself you can't afford to buy elsewhere until you have seen this year's model of the Lansing BRONCHO. An engine developing 50% more power is furnished, the whole machine has been strengthened and improved, the drum ends are of cast iron, and the tracks and the trunnion wheels on which they travel are machined, making a mixer that runs as smooth and true as a watch.

The discharge is rapid and clean. In every respect the BRONCHO is the ideal mixer for the man that has lots of moving around to do. Hitch it behind your wagon and pull it anywhere.

REMEMBER, machines are always in stock and we can have one on the way to you in an hour after you order.

LANSING COMPANY, 330 North 1st Street, Minneapolis, Minn.



Employers' Liability Insurance  
Surety and Fidelity Bonds.

## FRED L. GRAY COMPANY

THE LARGEST AGENCY OF ITS KIND  
IN THE NORTHWEST

More than 50,000 personal  
injury cases handled for  
contractors and others  
since 1892.

Security Bank Bldg.,

MINNEAPOLIS

### PROPOSAL ADVERTISING FOR BIDS

#### STATE BRIDGE. Cambridge, Minnesota.

Sealed bids will be received at the office of the County Auditor of the County of Isanti, at the Court House in the Village of Cambridge, Minnesota., until one o'clock, P. M., April 27th, 1914, for building State Bridge No. 1059 on State Road No. 2, in the Town of Cambridge in the County of Isanti, State of Minnesota.

The superstructure will be two 30-foot spans, 18-foot roadway; concrete floor; on concrete foundations. Distance from top of floor to bottom of foundations about 13 feet.

Plans and specifications may be seen

at the above named office, or at the office of the State Highway Commission at St. Paul.

Each proposal must be accompanied by cash or a certified check for not less than 5 per cent of the amount of the bid payable to the County Treasurer of said Isanti County. All bids must be upon the blank forms furnished by the undersigned.

The Board reserves the right to accept or reject any proposal.

G. C. SMITH,  
County Auditor,  
Isanti County, Minnesota.

### PROPOSALS

#### PROPOSALS FOR METAL FURNITURE, ELECTRIC LIGHT FIXTURES, ETC.

Aberdeen, S. D.

The undersigned hereby gives notice that sealed proposals for the wood furniture, the metal furniture and the electric light fixtures including all labor and material necessary to install same complete ready for use, will be received by F. W. Raymond, Aberdeen, S. D., until the hour of 10 A. M., on the 20th day of April, 1914, for the wood furniture, on the 27th day of April, 1914, for the electric light fixtures, and on May 11, 1914, for the steel furniture.

All bids must be in strict accordance to the plans and specifications, prepared by Geo. F. Fossum, Architect of Aberdeen, S. D., which may be seen at the office of the architect on and after the date given below, for the wood furniture and electric light fixtures and on and after March 28, 1914, for the steel furniture.

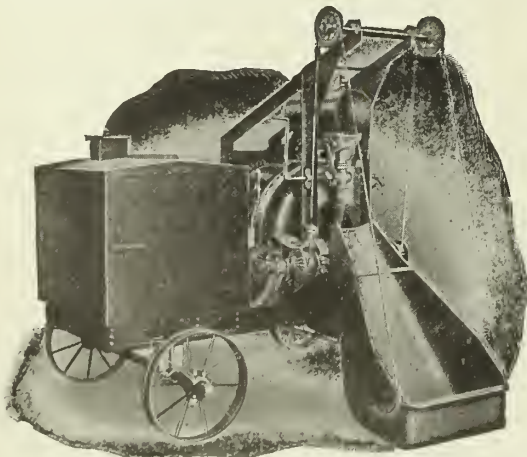
A certified check for 5 per cent, payable to the order of Geo. Bolles, must accompany each bid as a guaranty, the same to be returned to the unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the full sum of the bid for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed) F. W. RAYMOND,  
Auditor,  
Aberdeen, S. D.

(Continued on page 19.)

## Mixer Facts

Every Purchaser of Concrete Mixers Should Know the Importance of Thorough and Rapid Mixing, and the Durability of the Mixer.



### THE KOEHRING MIXER

See These Machines. Four Different Sizes, Now in Stock, at Our Midway Warehouse.

Phone us for appointment today. N. W. Main 330; T. S. Annex 330. Get our New Year's Guarantee.

### KOEHRING MACHINE COMPANY

615-619 Germania Building Milwaukee, Wis.  
N. W. Branch Office, H. B. Jones, Dist. Mgr.,  
349-351 Security Bank Bldg. Minneapolis

## The Modern Rock of Ages



"The standard by which all other makes are measured"

### THE ATLAS PORTLAND CEMENT CO.

30 BROAD ST., NEW YORK

Corn Exch Bank Bldg Chicago, Ill.  
Morris Bldg Philadelphia, Pa Plymouth Bldg Minneapolis, Minn.

Productive capacity over  
— 50,000 barrels per day

Largest in the  
— World —





## PROPOSAL ADVERTISING FOR BIDS

PROPOSAL FOR SCHOOL BUILDING.  
Spiritwood, N. D.

Sealed proposals will be received for a four-room, brick school building by the Board of Directors of Spiritwood School District No. 26, Stutsman County, North Dakota, up to the hour of one o'clock P. M., May 1, 1914, at the office of E. J. Clamp, Clerk at Spiritwood, N. D.

All bids must be in strict accordance with plans and specifications prepared by Haxby & Gillespie, Architects, Fargo, N. D., and must be accompanied by a certified check for 5 per cent of the amount of the bid, made payable to Albert W. Dunwell, President, as an evidence that the bidder will enter into contract if awarded same.

Plans will be on file at the following places after April 10, 1914: At the office of the County Superintendent, Jamestown, N. D.; Builders' Exchanges, Fargo and Bismarck, N. D.

Bids will be opened at the same time and place and under like conditions for the Steam Heating and Ventilation on the above building.

The Board reserves the right to reject any or all bids.

By order of the Board.

ALBERT W. DUNWELL, President.

E. J. CLAMP, Clerk.

Haxby & Gillespie,  
Architects, Fargo, N. D.

NOTICE TO ROAD CONTRACTORS.  
Mora, Kanabec County, Minn.

Sealed bids will be received at the County Auditor's Office of Kanabec County, at Mora, Minnesota, until 10 o'clock A. M., April 24, 1914, for construction of County Jobs numbered from one to nine inclusive, being of a total aggregate length of about eleven miles, consisting of the following: 21.5 acres clearing; 22.7 acres grubbing; 22,120 cubic yards grading; 16,800 lineal feet turnpiking; 10,348 cubic yards ditching; 1,055 cubic yards graveling.

Also for the construction of the following round, concrete culverts: Twelve 12 inches by 24 feet; Two, 12 inches by 26 feet; One, 15 inches by 24 feet; One, 18 inches by 24 feet; Two, 24 inches by 24 feet; and One, 36 inches by 42 inches by 24 feet plain concrete box culvert.

Also for the following reinforced concrete culverts: Four, 3 feet by 3 feet by 24 feet; One, 4 feet by 6 feet by 24 feet; One, 5 feet by 8 feet by 24 feet.

The total estimated cost is about \$12,450.00.

Bids may be submitted for any one, or more, or all of the jobs mentioned, with or without culverts.

Plans and specifications may be seen at above named office or at the office of the State Highway Commission at St. Paul.

Each proposal must be accompanied by cash or certified check for not less than 5 per cent of the amount of the bid, payable to the County Treasurer of said County.

All bids must be in accordance with instructions to bidders and upon the blank forms furnished by A. H. Merrill, District Engineer, at Mora, Minnesota.

The County Board reserves the right to reject any or all bids.

By order of the County Board of Kanabec County, Minnesota.

Dated at Mora, Minn., March 31, 1914.  
(Seal) ANTON PETERSON,  
County Auditor.

BANK AND OFFICE BUILDING.  
Grand Forks, N. D.

Sealed bids will be received by the Board of Directors of the Scandinavian American Bank and Northwestern Trust Company of Grand Forks, North Dakota, up to noon, April 29, 1914, for the erection and completion of a Bank, Store and Office Building, to be erected at Grand Forks, North Dakota.

Each bid must be accompanied by a certified check equal to 5 per cent of the amount of bid, payable to the Scandinavian American Bank, of Grand Forks, North Dakota, as a guarantee that the bidder will enter into a contract, should it be awarded to him.

Separate bids will be received on the following work:

a. General Work, including the erection of the structural steel and hauling same from the cars.

b. On furnishing the structural steel F. O. B. Grand Forks.

c. On the Heating.

d. On the Plumbing.

e. On the Electric work.

All bids must be made in strict conformity with the plans and specifications prepared by Buechner & Orth, which can be seen at the office of the Northwestern Trust Company, Grand Forks, North Dakota, Builders' Exchange, St. Paul and Minneapolis and Duluth, and at the office of Buechner & Orth, Architects, 500 Shubert Building, St. Paul, Minn.

SALE OF CONSTRUCTION JOBS.  
Waseca, Minn.

Bids will be received at the Auditor's office in the City of Waseca, County of Waseca, State of Minnesota, until 2 o'clock P. M., May 1, 1914, for the construction of State Rural Highway No. 34, which contains the approximate amount of work following, viz.: 32,936 cubic yards of grading, 13,552.4 cubic yards of graveling, 38,994 lineal feet of turnpiking, 182 cubic yards of ditching, 236 square yards of grubbing and clearing and 64 culverts. The entire length of the highway is about 12 miles and the estimated cost of which highway is Twenty-two Thousand Six Hundred and Thirty-two and Twenty-eight one-hundredths Dollars. Will be sold to the lowest responsible bidder. No bid will be entertained which exceeds \$24,000.00. Bonds will be required in a sum not less than the contract price. Estimates and profile on file at the County Auditor's Office. All bids will be required to be accompanied with a certified check, payable to the county auditors of Waseca and Rice Counties for not less than 10 per cent of the amount bid. Formal advertisement for bids published in the official paper of the County of Waseca, The Journal Radical, Waseca, Minn. The right to reject any and all bids is hereby reserved.

Dated April 8, 1914.

THEODORE PETERSON,

County Auditor.

HIGH SCHOOL.  
Cedar Rapids, Iowa.

The Board of Education of Cedar Rapids, Iowa, will receive bids up to 1:00 o'clock P. M., Wednesday, May 6, 1914, for furnishing the labor and material for erecting a Vocational High School building in Cedar Rapids, according to plans and specifications made by W. J. Brown, Architect, 808-809 Security Bank build-

ing, Cedar Rapids, Iowa. A set of the plans may be seen at the office of the American Contractor, Chicago, Ill.

A deposit of \$15.00 is required for each set of plans, to be repaid when the plans and specifications are returned in good condition.

Bids to be made only on printed forms furnished by the Architect and bids not so made may be rejected. Bids to be accompanied by a certified check, payable to Cedar Rapids Board of Education, for 2 per cent of amount of bid.

April 7, 1914.

J. W. INGOLD,  
Secretary.

## SCHOOL HOUSES.

## Norfolk, Neb.

Sealed proposals for the erection of two brick school houses, the Junior High School, 60x78, and the Washington School, 49x59, will be received by the School District of the City of Norfolk, Madison County, Nebraska, until Monday evening, May 4, 1914, at 8 o'clock.

Drawings and specifications will be on file on and after April 18, 1914, at the Builders' Exchange, Omaha, Neb., and at the office of Architect, Jas. C. Stitt, Norfolk, Neb.

Bids are to be addressed to and filed with M. E. Crosier, Secretary, Norfolk, Neb., and each bid must be accompanied with a certified check as provided in the specifications.

Additional sets of drawings may be obtained upon application to the Architect, and the deposit with him of a certified check for \$25.00, which reverts to the bidder upon the return of the plans in good order.

The right is reserved to reject any or all bids.

A. H. VIELE, President.

M. E. CROSIER, Secretary.

Norfolk, Neb.,

April 7, 1914.

## WATER MAINS.

## White Bear, Minn.

The undersigned hereby gives notice that sealed proposals for the construction of approximately 3,650 feet of 6-inch water main and 700 feet or more of 4-inch water main, including all labor and material, will be received by the Village Council of the Village of White Bear, Minn., until the hour of 7 P. M., on the 21st day of April, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by W. P. Whitten, of White Bear, which may be seen at the office of Village Clerk on and after April 10, 1914.

Proposals to be made per lineal foot for each kind of main.

A certified check for \$100, payable to the order of Village of White Bear, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed) J. E. EXTRAND,

Village Clerk,

White Bear Lake, Minn.

April 8, 1914.

(Continued on page 20.)



LINOFELT should be your first thought this spring in building that new home—or remodeling the old one. We know you want COMFORT above all things. Get it. Use Linofelt. Actual tests show it to be 38 times more efficient than building paper. The difference in initial cost will be made up the second winter in fuel saved; and more, you are sure of what you are after—COMFORT. We make every form of insulation preventing cold or heat from going through walls, floors or roofs. Write for illustrated booklets.

**UNION FIBRE COMPANY, -- WINONA, MINNESOTA**

## PROPOSAL ADVERTISING FOR BIDS

### BOND SALE.

New Barnesville, Minn.

The Board of Education, Independent School District No. 60, New Barnesville, Clay County, Minnesota, will meet at Citizens State Bank in Barnesville, Minnesota, on the 25th day of April, 1914, at 7:30 P. M., for the purpose of considering bids for \$55,000.00 School Bonds of said district, to bear date September 1, 1914, bonds to be in denomination of \$1,000.00 each, to mature in 15 years without option of prior payment, rate of interest four and one-half per centum per annum, payable semi-annually. Bids will be considered for the whole amount or part of said bond issue. The Board reserves the right to reject any or all bids. Certified check for \$500.00 required with each bid. Dated at Barnesville, Minn., April 2, 1914.

E. AAMODT,  
Clerk.

### BIDS FOR THE CONSTRUCTION OF A FOUR-STORY CHEMISTRY BUILDING.

State University, Vermillion, South Dakota.

Notice is hereby given, that sealed bids will be received by the Regents of Education of South Dakota, care of J. H. Julian, Secretary of the State University, Vermillion, South Dakota, up to Nine o'clock A. M., on April 22, 1914, for the construction of a Chemistry Building for the University of South Dakota, according to the plans and specifications prepared by Joseph Schwarz, Architect, of Sioux Falls, South Dakota, and approved by the State Engineer.

Plans may be seen at the Builders' Exchange, St. Paul, Minn., at the office of the Architect at Sioux Falls, S. D., at the office of J. H. Julian, Secretary of the University, at Vermillion, South Dakota, and at the Builders' Exchange,

Omaha, Neb. Copies of plans may be secured of the Architect at Sioux Falls, South Dakota.

A certified check, payable to the Regents of Education, in a sum equal to Two per cent of the amount bid but not less than \$50, must accompany each bid.

The Regents of Education reserve the right to reject any and all bids.

Dated at Elk Point, S. D., this 18th day of March, 1914.

The Regents of Education,  
By A. E. HITCHCOCK, President.  
Attest.

FRED W. FORD, Secretary.

### CREAMERY.

Cokato, Minnesota.

The undersigned hereby gives notice that sealed proposals for the erection of a Creamery Building at Knapp, Minn., including all material and all labor except hauling, will be received by the Knapp Creamery Association, Cokato, Minn., until the hour of 2 o'clock, p. m., April 25. All bids must be in accordance with plans and specifications prepared by Richard W. Swanson, Architect, Dassel, of the manager, G. C. Celine, or at Farm-Minn., which may be seen at the office of the undersigned & Merchants' Bank, Cokato; also at office of Improvement Bulletin, Minneapolis; a certified check for 2½ per cent, payable to Knapp Creamery Association, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed.) KNAPP CREAMERY ASSO.  
G. C. CELINE, Manager,  
Cokato, Minn.

### LAYING WATER PIPE.

Cherokee, Iowa.

The undersigned hereby gives notice that sealed proposals for the laying of 5,264 feet of 6-inch cast iron water pipe, including all labor, will be received by City Council until the hour of 8 p. m., on the 21st day of April, 1914.

All bids must be in strict accordance with the plans and specifications, which may be seen at the office of City Clerk on and after April 16, 1914.

This is for doing all work, city furnishing all material; 7 fire hydrants, 8 valves and boxes.

A certified check on some Cherokee Bank for \$10, payable to the order of City Treasurer must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the sum of \$1,800.00 for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed.) WM. SHARDLOW,  
City Clerk.

### NOTICE TO CONTRACTORS.

Newton, Iowa.

The Board of Supervisors of Jasper County, Iowa, will receive sealed proposals for the erection of Four Steel and Concrete Bridges. Plans and specifications now on file in the Auditor's Office of said county and with the State Highway Commission at Ames, Iowa. Certified check for 5 per cent of the bid is required. All bids must be filed in the Auditor's office on or before noon of the 24th day of April, 1914.

H. S. RAYBURN,  
County Auditor.

(Continued on page 21.)

## FREE HELP WANTED ADVS.

### NOTICE OF ANTON P. HILL & CO.

We had one job with Audin Olson as partner in the Lake Harriet Bank Building only, and we have no further connection with Mr. Audin Olson.

Respectfully submitted,

ANTON P. HILL & CO.

An experienced superintendent who understands railway construction and dirt moving, for construction of Rural Highways in Koochiching county. State experience and salary. Northwestern Construction Co., International Falls, Minn.

Architectural Draftsman at once for general office work. State experience and salary wanted in letter. James C. Stitt, Architect, 13-14 Norfolk National Bank, Norfolk, Neb.

Architectural Draftsman wanted, state experience and salary in first letter. J. W. Bradford, Architect, Fort Dodge, Iowa.

## Boukind-Carlson Brick Co

BRICK AND BUILDING  
MATERIAL

CROOKSTON

MINNESOTA

## NEW BOOKS AT LOW PRICES

Specifications for Street Roadway Pavements, by S. Whinery. Regular price, \$1.00. Our price, 75c.  
Sewage Disposal, by Kinnicutt, Winslow and Pratt; 400 pages, cloth bound, illustrated. Regular price, \$3.00. Our price, \$2.00.

ORDER FROM

THE IMPROVEMENT BULLETIN  
MINNEAPOLIS, MINN.



## Hennen's Elastic Calking : Paste :

Stops Leaks and keeps out wind, dust and rain. Fireproof and weatherproof. We also make weatherproof glazing putty for glazing. Our materials stay permanently.

Minnesota Weatherproof Calking & Glazing Co.  
Manufacturers and Calking Contractors  
210 PLYMOUTH AVENUE MINNEAPOLIS, MINN.



## PROPOSAL ADVERTISING FOR BIDS

ADVERTISEMENT FOR BIDS FOR AN  
ELECTRIC LIGHTING SYSTEM  
FOR THE CITY OF ELK  
POINT, SOUTH DAKOTA.

Notice is hereby given that until 2:30 P. M., on the 30th day of April, 1914, bids for labor and materials required in the construction of an electric lighting system for the City of Elk Point, South Dakota, will be received according to the plans and specifications which are on file in the office of Mr. A. Smythe, City Auditor, Elk Point, South Dakota, and also in the office of Earle D. Jackson, Consulting Engineer, St. Paul, Minnesota, and may be there examined and seen.

The work is divided into three parts: Part I, consisting of a brick building, Part II, consisting of furnishing and erecting two 125-h. p. anthracite gas producers; one 125-h. p. gas engine and one 75-h. p. gas engine, direct connected respectively to a 75-K. V. A. and a 50-K. V. A. alternator with direct connected exciters, necessary piping and accessories, switchboard, etc., and Part III, consisting of furnishing and erecting poles, wires, street lamps, transformers, etc., for the electrical distribution system of the City of Elk Point, South Dakota.

Bids shall be received on complete parts only.

Bids must be made out on the bidding blanks furnished by the consulting engineer for this purpose, and must be accompanied by a certified check for 5 per cent of the contract price, as a guarantee that the bidder will enter into a contract and perform the work in case the contract is awarded to him. In addition, the successful contractor must give a bond for the carrying out of the work on award of contract for the full amount thereof, to run for one year from date of acceptance of work.

The sum of \$1.00 for each part, (to cover cost of printing and mailing) must accompany applications for copies of plans and specifications, and the latter must be returned with bid, otherwise no bid will be considered. The consulting engineer reserves the right to make any minor changes in the plans or specifications before award of contract.

Address bids to Mr. A. Smythe, City Auditor, Elk Point, South Dakota.

The right is reserved to reject any or all bids.

City of Elk Point, South Dakota.  
MR. A. SMYTHE,  
City Auditor,  
Elk Point, S. D.

OLD PEOPLE'S HOME.  
Beresford, S. D.

The undersigned hereby gives notice that sealed proposals for the erection of an Old People's Home, including all labor and material, will be received by E. H. Sund, Architect, 431 Andrus building, Minneapolis; O. E. Ulvin, treasurer, Goodhue County Bank, Red Wing, Minn., and S. O. Stensland, Beresford, S. D., until the hour of 3 p. m., on the 15th day of April, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by the architect, which may be seen at the office of the architect, or at the offices of Messrs. Ulvin and Stensland.

A certified check for 5 per cent must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is

awarded will be required to give a satisfactory bond for the faithful performance of the contract.

The right is reserved to reject any or all bids.

Plumbing, heating and wiring bids will be taken separate till same date and hour as above.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., March 31, 1914.—Special proposals will be opened in this office at 3 p. m., May 13, 1914, for the construction complete (including mechanical equipment, lighting fixtures and approaches) of the United States postoffice at Excelsior Springs, Mo. One-story and basement building; ground area, 3,800 square feet; first floor fireproof; stone and brick facing with ornamental terra-cotta cornice, etc.; composition roof. Drawings and specifications may be obtained from the custodian of site at Excelsior Springs, Mo., or at this office. O. WENDEROTH, Supervising Architect.

NOTICE FOR RECEIVING PROPOSALS  
FOR THE ERECTION OF A PUB-  
LIC SCHOOL BUILDING,  
WILMOT, S. D.

The undersigned hereby gives notice that sealed proposals for the erection of a public school building for Wilmot, S. D., Independent School District, including all labor and material, will be received by A. Minder, Secretary, Board of Education, Wilmot, S. D., until the hour of 8 P. M., on the 20th day of April, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by A. H. Shoaltz of Watertown, S. D., which may be seen at the office of the Secretary, Wilmot, S. D., on and after April 1, 1914, and may also be had on application to the architect, Watertown, S. D.

Sealed proposals will be received at the same time and place for the installation of the heating, ventilating and plumbing systems in the above described buildings.

A certified check for 3 per cent, payable to the order of A. Minder, Secretary, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond for the faithful performance of the contract. The right is reserved to reject any or all bids.

A. MINDER,  
Secretary Board of Education.

PUBLIC BATHS.  
Excelsior, Minn.

The undersigned hereby gives notice that sealed proposals for the erection of the Excelsior Public Baths, including all labor and material, will be received by the Board of Park Commissioners, Harry B. Nistrand, Secretary, until the hour of 8 P. M., on the 17th day of April, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by H. Edward Walker, of 214 Lumber Exchange, Minneapolis, which may be seen at the office of Secretary of Park Board, Excelsior, Minn., on and after April 6, 1914, and may also be seen on application to H. Edward Walker, 214 Lumber Exchange, Minneapolis, Minn.

A certified check for \$100, payable to the order of Harry B. Nistrand, Secretary, must accompany each bid as a guaranty, the same to be returned to unsuc-

cessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a surety bond for the full amount of the contract, for the faithful performance of the contract.

The right is reserved to reject any or all bids.

(Signed) Board of Park Commissioners.  
HARRY B. WISTRAND,  
Secretary.

## CHURCH BUILDING.

Dawson, Minn.

The undersigned hereby gives notice that sealed proposals for the erection of church building at Dawson, Minn., including all labor and material, will be received by Charles O. Hill, Chairman Building Committee, until the hour of 7 P. M., on the 6th day of May, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by A. W. Woods, of Lincoln, Neb., which may be seen at the office of Chas. O. Hill, Dawson, Minn., on and after April 6, 1914, and may also be seen on application to Builders' Exchange, St. Paul, Minn., and Builders' Exchange, Minneapolis, Minn.

A certified check for \$500, payable to the order of Chas. O. Hill, Chairman, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the sum of cost price of church for the faithful performance of the contract.

The right is reserved to reject any or all bids.

(Signed) CHARLES O. HILL,  
Chairman Building Committee.

## PAVING BIDS WANTED.

Sioux Falls, S. D.

Sealed bids will be received by the City Auditor of the City of Sioux Falls, S. D., up to 9 o'clock A. M., of April 30, 1914, for the paving of Duluth avenue from Third street to Eighteenth street, Phillips avenue from Seventh street to Thirteenth street, and Phillips avenue from Thirteenth street to Eighteenth street, a total of approximately 53,000 square yards of pavement.

Specifications and form of proposal may be obtained from S. B. Howe, City Engineer.

The right is reserved to reject any or all bids.

WALTER C. LEYSE,  
City Auditor.

DREDGING, SAND FILLING AND RIP-  
RAPPING.

Clinton, Iowa, April 4, 1914.

Sealed proposals will be received by the Board of Park Commissioners of the City of Clinton, Iowa, until 2 o'clock P. M., May 4, 1914, at the office of Chas. P. Chase, 123 Sixth Avenue, for dredging, sand filling and rip-rapping on the River Front Park, when said bids will be publicly opened and acted upon. The board reserves the right to reject any or all bids. Certified check required, \$500. Information on application.

Issued by order of Board on April 4, 1914.

CHARLES P. CHASE,  
Consulting Engineer,  
Clinton, Iowa.

(Continued on page 23.)



# AMERICAN BRIDGE COMPANY OF NEW YORK

**B**UILDERS of steel structures of all kinds, including mining and manufacturing buildings, power plants, towers and tanks, bridges and viaducts, turntables for locomotives and automobiles, roofs, trusses, girders and steel frames for business buildings.

Stock carried at Minneapolis includes a large supply of structural steel, consisting of beams, channels, angles and plates. Orders requiring quick delivery can be filled promptly.

Estimates will be gladly furnished and all inquiries will receive careful attention.

Office and Works 7th Ave. and 2nd St. S. E., Minneapolis, Minn. Duluth Office  
Wolvin Bldg.

## The Youngstown Iron & Steel Co. YOUNGSTOWN, OHIO

MANUFACTURERS OF  
Expanded Metal for Concrete Reinforcement  
Expanded Metal Lath for Plastering Purposes

Metal Studding, Furring Strips, Etc.  
for Use with Expanded Metal Lath.

"Mahoning" Brand Expanded Metal  
In Gauges No. 7 to 12 Inclusive.

"Youngstown" Brand Expanded Metal  
In Gauges Nos. 7 to 20 Inclusive.

SEND FOR CATALOGUE

## Landers-Morrison-Christenson Co.

Agents for Minnesota and North and South Dakota  
Lumber Exchange Building, Minneapolis, Minn.

## The Fort Garry Hotel WINNPEG CANADA



3,000 Tons of Steel Furnished and Erected by

**Minneapolis Steel & Machinery Co.** Minneapolis  
Minnesota

## Davenport Machine & Foundry Co.

1618-44 West Fourth St.

Davenport, Iowa

## STRUCTURAL

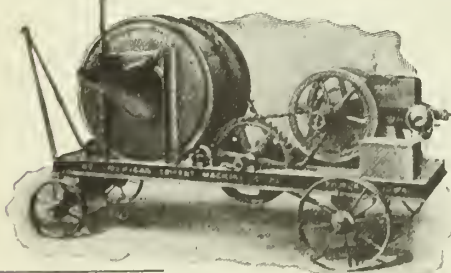
**Steel and** Steel and Cast Columns, Steel Girders,

**Cast Iron** Roof Trusses, Stairways and Fire Escapes.

Beam Channels and Angles

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## IT'S A "BOSS" MIXER!



Handy to get around with. Mixes 60 yds. of concrete a day.

Five foot capacity BOSS mixer on steel truck with 3 h. p. gasoline engine

\$198.00

BOSS mixer, fitted with side loader and hoisting drum, \$288.00  
I also sell Austin cube mixers, Coltrin mixers, gasoline engines & cement block machines

**NELS ERICKSON** 405 BOSTON BLOCK  
Minneapolis, - Minn.

Sand - Lime  
Common Brick  
Face Brick

Partition  
**TILE**  
Packing

**BELT LINE BRICK COMPANY** 512 ANDRUS BUILDING  
MINNEAPOLIS, - MINN.

Ricketson's

Made Famous

the Slogan:

MINERAL COLORS

For Mortar, Brick,  
Cement, Stone, Etc.,  
Red Brown, Buff,  
Purple and Black.

Ricketson's Mineral Paint Works, Milwaukee, Wis.





w., not included; also is remodeling premises, 6th and Wabasha, for People's Bank.

J. F. Druar, Oscar Claussen Engineering Co., consulting engineers, 314 Commercial building, reports contract let for waterworks, Excelsior, Minn.; National Co., Northwest, John P. Green, proprietor, Albert Lea, Minn., division 1; Wm. Morse, Excelsior, division 3; also Mr. Morse, building of pumping station, Chicago Bridge & Iron Co., steel tank; lake intake bids rejected, new bids soon.

Sub-contracts on remodeling Studio building, 3-story and basement, \$5,000; 4th and Market st.; architect H. A. Sullwold, 1011 Commerce building; owner L. P. Ordway, 523 Portland av.; general contractor, Schuett & Forshee, Lowry Annex; heating and plumbing to Geo. Reggelsberger & Co., 180 W. 7th st.; electric work to Electric Construction Co., 181 E. 4th st.

\*A. L. Garlough, architect, Rosen building, has furnished plans for modern residence, Fairview between Oxford and Lexington, for Mrs. E. A. Mascher, 28x30, frame, 2-story, all modern, hot water heat, fireplace, pipe for vacuum cleaner system, shingle roof, o. and b. trim, laundry tray, thermostat, heat regulation; owner will let all work.

\*Plans for remodeling Carling's downtown, Robert st., will be finished by Buechner & Orth, architects, this week; brick, terra cotta, and marble exterior, wrought iron lamps, art glass, plate glass, casement windows, new tile floors, ornamental plaster ceiling; present fixtures and interior finish to be used as far as possible.

Contracts for bungalow, 1-story and basement, 26x36, \$3,000, Lexington av.; architect and contractor, Bungalow Construction Co., 211 Dispatch building, for Dr. C. H. Kohn, 10½ E. 6th st.; frame; plumbing to Dorland Plumbing Co., 308 Newton block, bids wanted on plastering and electric work.

\*Contract for the parochial school, Pierz, Minn., was awarded to Ed. Hirt, St. Cloud, Minn.; mechanical equipment later; E. J. Donohue, architect, Gilfillan block; contract to be let for Cathedral parochial school, St. Cloud, April 16; Rev. D. O. Gans; brick, 12-room, auditorium for 800.

Bids for road improvements received by county board; lower Afton, J. W. Callahan & Son, \$5,052; Washington road, Ganick Bros., \$2,760; West town, D. W. Moore, \$4,693; Long Lake, Wm. Devine, \$3,800; referred to committee; also petition for ditch Mound View township.

Plans for creamery, 1-story, 46x56, Ellsworth, Wis., are being made by Architect O. M. Ragnan, 9 Detroit building, for Lawton Co-operative Butter & Cheese Co., Ellsworth; cement blocks, hollow tile, brick, structural and ornamental iron; owner lets all work.

\*Former State Engineer Ralph, Shubert building is completing surveys and making plans for a \$100,000 drainage system in Houston county, Minn., 1,500,000 to 2,000,000 yards excavation; open ditch all dredge work; ready for bids some time in May.

\*Plumbing, heating, electrical equipment, Leo Goodkind residence, will be ready for figures in 10 days, taken by architect, A. H. Stem, Endicott building; 3 baths, 5 lavatories and closets, 3 tubs, slop sinks, 2 copper sinks and 1 porcelain.

Bids received until 2 p. m., May 5, for book stocks, by library directors, city of St. Paul; specifications on file with architect, E. D. Litchfield, 477 5th av., N. Y.; check 2 per cent; bids delivered to F. A. Fogg, chairman, St. Paul library.

\*General contract, Immaculate Conception church, Cedar Rapids, Iowa, let to Mardis Co., Des Moines, \$57,500; heating and plumbing let later; brick, stone, modern, towers, seats for 800; E. L. Masqueray, architect, Endicott building.

\*W. J. Hoy Co., contractors, Metropolitan building, are constructing Standard Oil branch plant, Commercial and 3d; 3-story brick and concrete warehouse, 66x146, garage and barn, 2-story brick; 1-story tank house; boiler house, etc.

\*H. A. Miller, architect, Pittsburg building, has furnished plans for a modern dwelling, Thomas and Oxford, for M. Grunner; frame, 24x35, hot water heat, 1½-story, b. t. and finist., architect taking figures.

O. M. Rogan, 9 Detroit building, will prepare plans for lodge hall and office building, \$10,000; University and Rice sts., for Sons of Norway, care John Branden, 595 Broadway.

\*E. Schmidt, contractor, 1642 University, is building a frame dwelling, Hubbard near Hamline for Metropolitan Investment Co.; also dwelling, 24x24, Charles, for himself.

H. H. Flowers, J. Lloyd and others of Cleveland, Minn., consulted state school officials on plans for consolidated school at Cleveland. C. W. Knox, Medford, superintendent.

\*Struchen & Nelson Co., general contractors, 615 Capital Bank building, are making the interior alterations for Gould Co., 3-story brick, Jackson between 9th and 10th.

Equipment contract, Peoples' State Bank, Wabasha and 6th st., let to Louis F. Dow Co., exterior remodeling begun; marble, vault, safe, safety deposit vaults, etc.

P. J. Linhoff, architect, Germania Life, reports contract on

large Commercial garage Minneapolis, Central and University, let to Morton Fenstad, St. Paul.

\*Carl Branstrom, 1469 Sherburne, has contract for two bungalows, Edmund near Snelling, 1-story frame; 24x36, 1½-story, frame, 22x26.

\*Elizabeth Haxton, 1851 Goodrich, is building a modern residence, Dayton near Syndicate, 2-story, 26x44, hot water heat, matnel.

\*Rundquist & Dahlquist, 1693 Laurel, are building frame duplex, Ashland, near Aldine, for Walter E. Delano, 897 Dayton.

Church will be built in Glen Terrace, near W. 7th and Montreal, by Methodists; Herbert Clark, 1712 7th st., trustee.

\*Figures being taken on Ramsey county alms house, must be April 13, Buechner & Orth, architects, Shubert building.

Razing buildings for new bank, 5th and Minnesota, began this week; 2-story, \$45,000; National Bank of Commerce.

\*A. M. Becker, 764 Logan, has contract for two dwellings, Rondo and Snelling, 1½-story frame, 24x28, modern.

Nathan Silberstein will build 20-flat at Summit and St. Peter, recently bought from E. N. Saunders' estate.

Addition to Olivet Congregational church to cost \$20,000, will be started at once; Rev. Geo. M. Miller, pastor.

Henry G. Allen will build a large residence on 110-foot front, Summit between Chatsworth and Oxford.

Contract for bank, Glasgow, Mont., awarded to Lakeland & Kleppe, Buechner & Orth, Shubert building.

\*O. Stendahl, 1656 Ashland is building a frame duplex; 26x43, Ashland near Fry.

Contract to Twin City, Iron & Wire Works for balcony county treasurer's vault.

South Park Foundry Co. got contract for Earl st. viaduct lamp posts, at \$970.

J. W. Butler & Bros. Co. was low in bids for cottages at the Anoka asylum.

## HEAD OF THE LAKES

Office: 206 Manhattan Building. Telephone: Auto 3036.  
Mail or telephone news not later than Wednesday.

Items marked with asterisks not run in Daily Sheets.

### DULUTH

#### BUILDING PERMITS.

Hanford Construction Co., frame dwl., Snively road.....	3,500
E. F. Dunn, frame dwl., Woodland av.....	4,500
K. Sunder, repairs, E. 1st st.....	2,000
Dowling-Kirby-Hepworth Co., frame dwl., Victoria st.....	6,500
Erickson & Olson, frame dwl., Faribault st.....	2,500
C. M. Hon, frame store, Woodland av.....	2,500
Hattie Yayer, frame dwl., Wabasha st. and Maxwell av.....	3,000
American Carbolic Co., steel warehouse, 55th av. W. and Raleigh st.....	4,000

Arthur Hanford, 413-414 Sellwood building, Duluth, has prepared plans for residence, 701 Woodland av., for E. F. Dunn; frame, 28x32, 2-story, stone foundation, pressed brick, hot water heat, fireplace, electric light, cementing, plumbing, refrigerating, tile, storm sash; contract to Hanford Construction Co., \$5,000.

\*Duluth Temple of Camels will have handsome new home; contract is being made with Dickerman Investment Co. to erect building on east side of 1st av. W., between Superior and 1st sts., which the Camels will lease for a term of 15 years, building will be modern, fireproof construction, and cost about \$56,000.

Architect Arthur Hanford, 413-414 Sellwood building, Duluth, has prepared plans for residence, 45th and Cooke, for Lakeside Land Co., frame, stone foundation, sand-mold brick, d. s. glass, hot water heat, maple floors, pine finish, plumbing, electric light, screens, storm sash, bath; contract let this week, \$2,500.

\*Holstead & Sullivan, architects, will have plans ready in about a week for West End Star theater to be built by Nelson Bros., cost about \$55,000; 50 foot front, 2-story, brick and concrete, absolutely fireproof.

\*The Decaire Manufacturing Co., Minneapolis, will make an examination of incinerating plant installed by them, now requiring repairs estimated at \$600 or \$700; garbage acids have eaten away lining and grates.

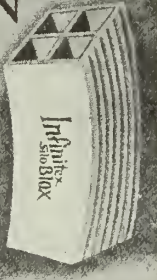
### SUPERIOR.

New firm organized to build dwellings, by Alexander Rothenberg, N. Y. and Jarvis L. McMahon, of Superior. Mr. Rothenberg said, "I know of no place in United States where things look as well as in Superior and I want to get in on the ground floor."

Regent Clough Gates and President McCaskill, Superior normal school, have been going over plans for new building with architect in Milwaukee, R. A. Van Ryn; first unit will be started at once; Emil Sedlachek, contractor.



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# MILWAUKEE, WIS.

Office: Hathaway Building: Telephone Main 1827.  
Mails news to Minneapolis office not later than Wednesday.

*Items marked with asterisks not run in Daily Sheets.*

\*Contracts for street improvement work awarded by Commissioner of Public Works Fred C. Simmons: Asphalt—Badger Construction Co., Fond du Lac av., \$28,204; Washington st., \$3,425; Morton place, \$1,884; Kenilworth place, \$1,810; Linnwood av., \$2,192; Morton place, \$1,203; Kane place, \$2,447; Juneau av., \$1,677; Irving place, \$2,534; White Construction Co., Frederick st., \$3,596; 25th av., \$7,524; Grove st., \$14,089; Harrison av., \$6,713; 24th av., \$4,943; Cleveland av., \$3,562; Mitchell st., \$11,859. Stone block—John H. Donohue, Buffalo st., \$11,661; Hasse & Weiher, Jefferson st., \$12,039; D. M. Sneddon, Winnebago st., \$19,246. Bituminous, macadam and concrete sidewalks—Arthur Froemming, 23d av., \$4,733; 33d av., \$3,335; 31st av., \$3,538.

\*Architect A. C. Clas, Colby Abbot building, figures on addition to light manufacturing building of Carbolineum Co., Prairie st. near 5th; brick and concrete, tile partitions, 50x150, 3-story and basement; bids on general, plumbing, steam heat and electrical; also plans for machine shop of Otto Biefeld in Watertown, Wis., to be brick and steel, 1-story and basement, 60x103.

Architect R. E. Oberst, 353 National av., taking figures on an addition to Miller building, National av., 1-story, 23x43, brick, hot water heat; also frame and stucco studio on 3d story; bids on six-flat for Schaefer & Co., at 26th and National av.; brick, 3-story and basement, 52x60, tile baths, vapor heat, glass marble entrance, incinerator.

\*Architect R. E. Oberst, 353 National av., taking bids on bakery, Buffum and Burleigh sts.; brick veneer, 2-story and basement, 27x54, tile floors, hot water heat, asbestos roof; also for store and flat, 26x55, garage and barn in rear, 22x56; 23d av. and Becher; store and flat, brick, concrete basement, hot water heat; cement block garage.

\*Architects Siebert & Bruecker, 557 12th st., figures on a store and four-flat on Walnut st. near 7th, for Fred Vinograd; brick veneer, 2-story and basement, 24x81, water or vapor heat, composition roof, probably vacuum cleaning; plans for a duplex for Albert Schultz on 6th near Wright; frame, 24x50.

\*Architect John Roth, 2d and Locust sts., taking bids on a bungalow, 6th and Chambers, frame, brick foundation, 24x48, hot water heat, \$3,500; preparing plans for a residence, North Milwaukee, brick veneer, 2-story and basement, 28x48, hot water heat, septic tank, private water system, \$6,000.

\*Architect A. E. Swager, M. & M. Bank building, taking bids on picture theater, offices, two stores, 2-story and basement, 60x120, 9th and Lincoln; preparing plans for store and flat for H. W. Zuleger, North Milwaukee, brick veneer, concrete foundation, 25x49, hot water heat.

\*The Badger Architects, 916 Walnut st., bids on bungalow, 24x46, at 26th and Hopkins sts.; owner's name withheld; also bids on a duplex for Fred Kubbernuhs on 7th st., near Davis; frame, stucco, 26x46; also on four-flat for Tarkow & Cohn and a store at 19th st. and Fond du Lac.

\*Architect Edward Kozick, Alhambra building; figures for residence for Mrs. J. Daglen, 49th st., frame, stucco, 2-story, 26x34, hot water heat, asphalt shingle roof; also bids on cottage, 929 Shepard av., frame, concrete foundation, 22x32, furnace heat, asphalt shingle roof.

\*Bids until April 15 at office of commissioner of public works for permanent asphalt pavement on Bremen, Odell sts., 6th, National, Louis avs., Broadway, Vine, Center, Achilles, 54th, 52d, Galena, 51st, 44th, Cramer, 5th sts., Lake Drive and Hi-Mount boulevard.

\*Architect Aug. Hinz, 396 20th av.; plans for two 4-flats, West Allis, 24x70, brick veneer, frame and cement block, 22x68; bids on store and three flat buildings, Windlake av., frame, cement block foundation, 2-story, 28x90, hot water heat, electric light, \$10,000.

\*Architects Van Ryn & De Gelleke, Caswell block, plans for jail and sheriff's residence at Elkhorn, Wis., 3-story and basement, 12 cells and juvenile department, cost \$30,000; also plans for addition to grade school, 38th and Clark sts., Milwaukee.

\*Bray & Nystrom, architects, have plans out for figures on 2-story frame addition to school at Soudan, Minn.; same architects have plans and specifications for south side school at Virginia, ready for figures last of this week; cost about \$65,000.

\*Architects Christiansen & Kemnitz, 87 Howell av., taking bids on a duplex for James Mitchell, Mount st. and Lincoln av., brick veneer, 2-story and basement, 28x54, tile mantels, hot water heating, composition roofing.

# SIoux CITY, IOWA

Sioux City Office: 310 Iowa Building. R. V. Sager, Representative.

Building at 4th and Nebraska st. destroyed by fire; owned by Jonathan W. Brown, will be replaced with a 3-story structure; brick; cost \$35,000; J. H. Bolton, who owned adjoining, will probably erect a 5-story reinforced concrete building; cost \$60,000.

Geo. W. Burkhead, architect, Grain Exchange building, is drawing plans for remodeling residence for J. W. Kennedy, 2815 Isabella st.; porch two sides, 26 and 24 feet by 8 feet; Bedford stone trim, pergola from house to garage; about \$2,000.

Plans ready for bids for store building for Frank Davy at 11th and McDonald, 32x24, frame, pitch and gravel roof, furnace heat, built in ice box, 2-story, upper for apartments; Geo. W. Burkhead, architect, Grain Exchange building.

Beuttler & Arnold, architects, drawing plans for remodeling Johnson Biscuit Co. factory, basement enlarged, two loading platforms, 14x85 and 12x85; reinforced concrete construction, sidewalk lights and waterproofing.

Buettler & Arnold, architects, Security building, drawing plans for a bungalow for L. D. Garberson, Sibley, Iowa, 26x38, frame 1½-story, modern, furnace heat, concrete foundation, \$3,500.

Beuttler & Arnold, architects, drawing plans for store for E. L. Weinandt, Bloomfield, Neb., 25x80, 2-story and basement, pressed brick, stone trim, composition roof, tile floor, \$9,000.

Bids being taken on the duplex bungalow for Miss Johanna Hansen, also for the residence for W. D. Buckley, Sloan, Iowa, Geo. W. Burkhead, architect, Grain Exchange building.

The general contract for the Early school, Early, Iowa, was let to Park Bros., Storm Lake, Iowa, for \$9,000; plumbing and heating bids being taken, cost complete \$13,400.

F. E. Colby, architect, Davidson building, is drawing plans for a residence for H. A. Wetmore, 28x31, frame, 2-story, modern, steam heat, hardwood finish; \$4,200.

Beuttler & Arnold, architects, Security building are drawing plans for a residence for J. McMillan, Lakewood, Iowa, 2-story, 34x46, brick.

F. E. Colby, architect, is drawing plans for a 2-room addition to the school building at Turin, Iowa; it will be 24x56, frame.

General contract for residence for B. M. Stoddard at Sloan, Iowa, let to Dubel & Anderson for \$26,500.

F. E. Colby, architect, is drawing plans for a bungalow for M. L. Sears to cost about \$4,800.

Contract for electric wiring for the F. M. Pelletier house was let to Ideal Electric Co.

Contract for residence for W. H. Hotze, Smith Villa Heights let to T. J. Graves for \$4,000.

Coomer & Small, contractors, have contract for Whitfield M. E. church, \$40,000.

B. H. Kingsbury will erect a building at 4th and Jennings sts. to cost \$20,000.

# WINNIPEG, MAN.

Permits: Lidholm & Roed, apartment block, Home st., \$50,000; D. Abramovich, is architect; A. Anderson, 6 dwellings, Sandhurst st., \$6,000; M. Dorfman, 3 dwellings, Inkster av., \$9,000; M. Dorfman, 3 dwelling, Powers st., \$6,000; J. Stoller, 4 dwellings, Fleet st., \$15,000; V. F. Bolton, dwelling, Sherburn st., \$4,000; H. F. Wilson, dwelling, Landsdowne av., \$2,500; Swift Canadian Co., addition to building, \$8,000; C. W. Craig, dwelling, Glenwood av., \$4,000; H. Picken, dwelling, Jessie av., \$3,500; L. Bjerkman, dwelling, Rosedale av., \$2,800; \$1,000 permit for foundation, grain elevator for W. T. Lee, Mill av.

Tenders wanted to April 14, by R. H. Smith, secretary treasurer of Winnipeg public school board, for heating and ventilating plant to be installed in King Edward school No. 2. Tenders wanted to May 15, by commissioners of Greater Winnipeg water district, 901 Boyd building, city, for dyke across the end of Indian bay, an arm of Shoal lake.

Permits: J. H. Berry dwelling, Inkster av., \$3,000; Manahan & Ballantyne, dwelling, \$3,000; S. Greenwood Building Co., dwelling, on Sherburn st., \$2,500; C. Brenko, dwelling, Redwood av., \$2,500; G. Goswin, dwelling on Pritchard av., \$1,600.

Winnipeg Athletic club will erect a 16-story club house here to cost \$750,000; Pratt & Ross have drawn plans; C. H.



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MINNEAPOLIS, MINN.



Gonslinger, in charge of project; R. G. Persse, secretary of club; work on same will commence within 60 days.

The Frid-Lewis Co. have commenced work, addition St. Luke's Sunday school, Fort Rouge, \$40,000; Woodman & Carey, architects; Linwood school, St. James, \$68,000; will start work shortly on fire hall \$35,000 in St. Vital.

The Walley Construction Co. will erect an apartment block, McMillan av., to cost \$24,000; same firm is erecting dwellings on Fleet st., \$5,000 each; Alverston av., \$5,000; carriage shop, St. James, \$7,000.

## DES MOINES, IOWA

Bert N. Mills, representative, 310 Hubbell Building.

J. I. Myerly, head of the Des Moines department of streets, has offered resolutions for \$75,000 worth of new paving this year; the Valley drive will be surfaced for a distance of 40 blocks; E. 13th will be paved from Washington to Thompson and 23d st. from Washington to Mondamin.

L. L. Thompson, city solicitor of Valley Junction, has sent an order to the Iowa Engineering Co. requesting plans for new mains, standpipes and fire plugs, for the new \$39,000 water system recently voted by the city.

Wetherell & Gage have completed plans for a new residence to be built this year on W. 34th st. near University, by W. W. Maish, brick and stucco materials will be used; the style of architecture is the Old English.

Homer Loring, president of the Fort Dodge, Des Moines & Southern, promises to electrify Crooked Creek line and extend from Webster City to Fort Dodge line if the towns will raise \$30,000.

E. H. Cunningham of Newell and W. R. Cunningham of Des Moines announce that they will build a hog cholera serum plant in Des Moines this year at a cost of \$30,000.

State board of control rejected bids on hospital for the Oakdale sanitarium near Iowa City; new plans to be submitted by H. F. Liebbe, state architect.

Plans are under consideration for an extension of the Creston, Winterset & Des Moines railroad to a junction with the Great Western at Peru.

Consolidated school will be erected at the center of four Chickasaw county rural districts; address county school superintendent, New Hampton.

Sweeney Bros., Reedsburg, Wis., have contract for 30,000 yards of paving, brick and brick and concrete, in W. Union this summer; \$61,000.

Officials of Illinois Traction Co. were in Des Moines this week to discuss plans for central heating system here to cost about \$500,000.

Des Moines Clay Co. has the contract to furnish facing brick for the Grand Trunk hotel at Regina, Can.; 50 carloads.

Iowa state board of control may establish a brick and tile factory at the state reformatory at Anamosa.

Boosters of Ida Grove plan stock company to build a hotel; write Ida Grove Commercial club secretary.

Christian Science church of Des Moines is negotiating for W. Grand av. site for \$100,000 church.

## FARGO, N. D.

VICTOR H. LEEBY,  
Builders' and Traders' Exchange.

Bids at lettings on recent plans by Haxby & Gillespie, architects, Fargo, were: Glenfield school—P. M. Hanson, J. R. Clausen, (awarded), \$10,850; W. H. Carson, \$11,264; Olson & Erickson, \$11,884; John Schlanser Co., \$12,406; Bowers Bros., \$12,770; Ole Korshus, \$13,250; heating, Glenfield—H. S. Halvorson Co., Glenfield (awarded), \$1,189; McDermott & Greenshields, Fargo, \$1,590; Valley City Plumbing & Heating Co., \$1,625; V. E. Baudry, New Rockford, \$1,625; New Rockford P. & H. Co., \$1,700; Fargo Plumbing & Heating Co., \$1,765; Champlin & Nansen, \$1,790; T. P. Riley, \$2,194; Christian Science church—T. F. Powers & Co., \$18,596; Johnson Construction Co., \$19,583; Bowers Bros., \$19,983; heating and wiring—McDermott & Greenshields, \$1,570; Champlin & Nansen, \$1,450; Fargo Plumbing & Heating Co., \$1,256; hotel building, Bemidji, Minn.—Hoglund Bros., Minneapolis, \$21,645; Madsen Bros., Minneapolis, \$23,453; F. A. Hancock, Morris, Minn., \$26,158; Frank L. Johnson Co., Duluth, \$26,646; Johnson Construction, Fargo, \$27,570; Libby & Nelson Co., Minneapolis, \$28,124; Theo. Nanfitts, Duluth, \$28,267; Geo. Kreatz, Bemidji, \$28,574; Edw. Jackson, Bemidji, \$28,895; store building for Ole O. Dahl, Litchville, N. D.—Johnson Construction Co., Fargo, N. D., \$4,379; Ritterbush & Harris, Oakes, \$4,474; Bowers Bros., Fargo, N. D., \$4,500; Emil Anderson,

Fargo, N. D., \$4,530; Stewart Wilson, Fargo, N. D., \$4,660; Erdal & Roel, \$4,565; J. H. Leebby, \$5,145.

Bids received on Cooperstown school: Johnson Construction Co., Fargo, \$14,964; Harrison Bros., Elbow Lake, Minn., \$14,367; Bowers Bros., Fargo, \$14,150; Erdal & Roel, Fargo, \$13,377; T. F. Power & Co., Fargo, \$13,374; J. Schlanser Co., \$12,750.

Plans have arrived for a 2-story bank building to be erected at Grafton, N. D., 25x80; owners, Scandinavian-American Bank of Grafton, N. D.; Bert D. Keck, architect, Crookston, Minn.; bids close April 25.

Plans have just been filed at Fargo Builders' Exchange for a 4-room school for Ardoch, N. D., common brick construction; J. W. Ross & Son of Grand Forks, N. D., architects. Bids close May 4.

New Fargo hotel contract was let to T. F. Powers & Co.; plans by Hancock Bros., architects, Fargo; 3-story, completely modern; 70 rooms; brick, concrete, steel; stores; \$65,000.

Bids received by city auditor till 5 p. m., April 14, for repairs, fire hall No. 1.

Smedley & Co., florists, will add a hothouse of 5,000 feet floor space.

Fargo Auto club will build a model road to Fair grounds.

## OMAHA, NEB.

### BUILDING PERMITS.

Hastings & Heyden, brick apartment, 3005-07 Harney.....	15,000
Charles E. Williamson Co., two frame dwls., 4510 Spencer	2,200
D. M. Potter, 2720 N. 45th, frame dwl.....	3,000
C. A. Larson, 3336 Lincoln av., frame dwl.....	3,500
Mary Lydia Rowe, 3340 Walnut st., frame dwl.....	3,500
M. L. Whippman, 3011 N. 30th, frame dwl.....	2,500
R. B. Carlyle, 6525 N. 24th, frame dwl.....	2,500
K. C. Norris, 2314 Miller place, frame dwl.....	2,500
T. N. Jerome, 3177 Larimore av., frame dwl.....	2,500
C. D. Lonergan, 5941 N. 24th, frame dwl.....	2,500
A. R. Thatcher, 9631 N. 24th, frame dwl.....	2,500
J. W. Robinson, 3401 Webster, frame dwl.....	3,200
Amos Grant, agent, 4318 Franklin, frame dwl.....	2,500
E. H. Shannon, 1724 N. 33d, brick dwl.....	2,500
Mr. Russell, 2578 N. 24th, brick warehouse.....	2,500
Gus Renz, Mercer park, brick and stucco dwl.....	4,500
Mrs. H. B. Whitehouse, 2808 Jackson, frame dwl.....	2,500

J. P. Guth, architect, 516-17 Paxton block, Omaha, has prepared plans for two bungalows and a 2-story residence in Gruenig addition for Chas. Gruenig; limestone, common brick, hot water heat, gas, electricity, wood or asbestos shingles, patent plaster, plaster board, Luxberry varnish, plate and ribbed glass, tile floor, oak and maple floors, oak and yellow pine finish.

Elmer Neville will build three stores at 16th and Farnham. City hall may be heated from court house plant, or \$15,000 expended to improve city hall plant.

Plans for \$30,000 plant of German-American Coffee Co. nearly completed by Thomas R. Kimball, architect. Coad Real Estate Co. will own building.

Creighton home for the working girls will be at 21st and Davenport; fund, \$180,000; John D. Creighton, director; architect not yet chosen.

## STREET AND ROAD WORK

Notes arranged alphabetically by States.

Items marked with asterisks not run in Daily Sheets.

Iowa, Fairfield—Hearing April 10, construction of 39 concrete bridges and culverts, \$200 to \$500 each, and one \$4,000 steel bridge; A. C. Turner, auditor, Jefferson county.

Iowa, Fort Dodge—Hearing April 15 on large amount of paving, either sheet asphalt, cement concrete, or asphaltic concrete; W. L. Tang, city clerk.

N. D., Grand Forks—Plans being completed for University av. boul., to cost about \$12,000; H. G. Lykken, city engineer.

### BIDS WANTED.

Iowa, Chariton—Bids received by G. J. Gittinger, city clerk, until 6 p. m., April 20, for 45,000 square yards brick, asphaltic concrete or concrete paving, 24,000 feet curb and gutter, and 6,000 yards excess grading; check \$2,500; Iowa Engineering Co., Clinton, Iowa.

Iowa, Oskaloosa—Bids received by city clerk until April 16, for repaving of High av., etc.

Minn., Bird Island—Bids received by J. L. Johnson, auditor Renville county, until 1:30 p. m., April 28, for one or more Russell elevated road graders, Austin-Western elevated road graders, Chamberlain elevated road graders or other standard elevated graders, all of contractors' size, tractor hitch, disc and coulter plows; also 4 or more dump wagons and the same number wheel scrapers; check for 5 per cent.



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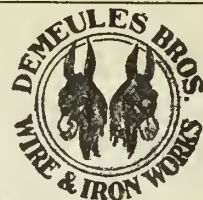


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**Minn., Borup**—Bids received by John J. Arends, town clerk of Mary township, until 2 p. m., April 29, for 2½ miles road grade, ditches on both sides; check for 5 per cent.

**Minn., Buffalo**—Bids received by Jno. A. Berg, auditor, Wright county, until April 28, for 30 adjustable 2-horse drags, 8 No. 2 slip scrapers, 8 11-inch road plows and 16 shovels, also various sizes corrugated metal culverts.

**Minn., Buffalo**—Bids received by John A. Berg, auditor, Wright county, until 1:30 p. m., April 28, for grading various state roads; check for 5 per cent.

**Minn., Caledonia**—Bids received by Robert Burns, auditor Houston county, until 1 p. m., April 17, for grading, culverts and bridge on state road No. 1; check for 5 per cent.

**Minn., Cambridge**—Bids received by G. C. Smith, county auditor, until 1 p. m., April 28, 7½ miles road work, grading, turnpiking, ditching, grubbing and clearing; check 5 per cent; officially advertised this issue Improvement Bulletin.

**Minn., Chaska**—Bids received by J. B. Connolly, auditor, Carver county, until 2 p. m., April 15, for various state roads; check for 5 per cent.

**Minn., Cokato**—Bids received by John A. Berg, auditor Wright county, at Buffalo, Minn., until 1:30 p. m., April 28, for grading on various state roads; check 5 per cent.

**Minn., Crookston**—H. J. Welte, county auditor, instructed to advertise for metal and concrete culverts, from 12 to 60 inches in size.

**Minn., Crookston**—Bids received by H. J. Welte, auditor, Polk county, until 2 p. m., April 20, for 20,000 cubic yards grading on state road No. 5, estimated to cost \$2,500; also, for graveling for about 4 miles state roads; estimated to cost \$4,200.

**Minn., Duluth**—Bids received by Morell & Nichols, 902 Palace building, Minneapolis, Minn., until noon, April 24, for work to be done at townsite of Minnesota Steel Co., Duluth, requiring 60,000 square yards paving, 17,000 lineal feet curbs, 130,000 square feet sidewalks, 80,000 square feet house walks, together with underdrains, cross walks, etc.; check \$5,000; officially advertised in the Improvement Bulletin.

**Minn., Duluth**—Bids received by Odin Halden, auditor, St. Louis county, until 2 p. m., April 27, for 57 corrugated iron culverts, etc.; check 10 per cent.

**Minn., Elbow Lake**—Bids received by O. E. Wold, county auditor, until 10 a. m., April 23, for county road work, culverts, etc., \$11,690; check 5 per cent; officially advertised this issue Improvement Bulletin.

**Minn., Elk River**—Bids received by Chas. E. Swanson, auditor, Sherburne county, until 1 p. m., April 18, for work on various roads; check for 5 per cent.

**Minn., Fairmont**—Bids received by D. C. Montgomery, township clerk, Fraser township, until April 18, for grading graveling and facing several steel culverts with concrete.

**Minn., Glencoe**—Bids received by F. D. Stocking, auditor, McLeod county, until 1 p. m., May 1, for a large amount of grading and graveling on highways; check for 5 per cent.

**Minn., Grand Rapids**—Bids received by M. A. Spang, auditor Itasca county, until 10 a. m., April 24, for road work; check 5 per cent.

**Minn., Hibbing**—Town clerk ordered to call for bids on over 6 miles road; 4,000 feet of culvert to be purchased at next meeting.

**\*Minn., Hibbing**—Bids received by Victor J. Benoe, clerk, town of Stuntz, Hibbing, until 8 p. m., May 6, for graders, dump wagons, wheel scrapers, slushers, and 4,000 feet steel culverts; check 10 per cent.

**Minn., Ivanhoe**—Bids received by Karl A. Hansen, auditor, Lincoln county, until 2 p. m., April 21, for one road grader with 10-foot blade, 18 King drags, 2 road plows, 6 each 12-wheel scrapers No. 2 and 2½ and 4 slips; check 5 per cent.

**Minn., Madison**—Special meeting of county board April 15, to make contracts for drags, scrapers, tools and culverts; A. G. Shogren, auditor.

**Minn., Mankato**—Bids received by C. L. Kennedy, auditor, Blue Earth county, until 3 p. m., April 23, for 20,400 feet road work; clearing, grubbing, ditching, grading and turnpiking, and hauling and laying 16 metal culverts; check for 5 per cent.

**Minn., Mora**—Bids received by Anton Peterson, county auditor, until 10 a. m., April 24, for county road work, culverts, \$12,450; check 5 per cent; see official advertisement this issue Improvement Bulletin.

**Minn., New Ulm**—Bids received by Albert J. Meyer, city clerk, until 5 p. m., April 14, for cement walks, crossings, curbs and gutters as may be ordered by council; check for \$100.

**Minn., Osceola (not a P. O.)**—Township will purchase a Hutchinson elevated road grader; Olivia nearest postoffice.

**\*Minn., Renville**—Bids received by Peter Carlson, auditor, Renville county, until 2 p. m., May 1, for 1 elevating road

grader, with both disc and ordinary plow; check 5 per cent.

**Minn., Roseau**—Bids received by S. G. Bertilrud, auditor, Roseau county, until 1 p. m., April 17, for one mile of road work; check for 5 per cent.

**Minn., St. James**—Bids received by J. C. Jensen, auditor, Watonwan county, until 2 p. m., April 28, for state road in Butterfield township; check for 5 per cent.

**\*Minn., Two Harbors**—Bids received by August Omtvedt, city clerk, until 8 p. m., April 20, for 1 motor truck, suitable for hauling crushed rock, gravel, sand, etc.; check for 5 per cent.

**Minn., Wadena**—Bids received by Eugene Boss, auditor, Wadena county, until 3 p. m., April 27, for county job No. 1, 5½ miles, clearing, grubbing, grading, turnpiking and ditching, estimated at \$5,792; check for 5 per cent.

**Minn., Winthrop**—Bids received by T. Thorson, county commissioner, until 9 a. m., April 22, grading and graveling on state road No. 1.

**Mont., Missoula**—Bids received by W. H. Smith, city clerk, until 10 a. m., April 15, for sidewalks and curbs for the year; check \$200.

**Mont., Roundup**—Bids received by Fred E. Renshaw, county clerk until 10 a. m., April 24, for general road work in Musselshell county; check \$50; also, at same time, for 6 4-horse graders and 6 road plows.

**N. D., East Grand Forks**—Bids received by city clerk, until April 20, for 40,000 square yards pavement, either sheet asphalt, asphaltic concrete, bitulithic or concrete, on concrete foundation; J. J. Smith, city engineer.

**N. D., Glenburn**—Bids received by Peter Carlson, auditor Renville county, until 2 p. m., May 1, 1,400 cubic yards grading; check for 5 per cent.

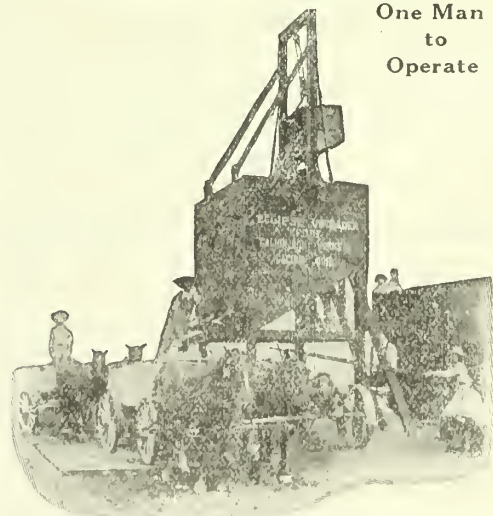
**N. D., Northwood**—Bids received by G. P. Johnson, city auditor, until 6 p. m., May 6, for sidewalks and street crossings for year ending April 1, 1914; check \$50.

**\*S. D., Sioux Falls**—Bids received by Walter C. Leyse, city auditor, until 9 a. m., April 30, for 53,000 square yards paving; S. B. Howe, city engineer. Officially advertised in this issue of the Improvement Bulletin.

**Wis., Janesville**—Bids received by Jas. A. Fathers, chairman board public works, until 2 p. m., April 24, for 282 cubic yards excavation on Court st., etc., 3,104 square yards macadam paving, and 1,968 lineal feet cement curb and gutter;

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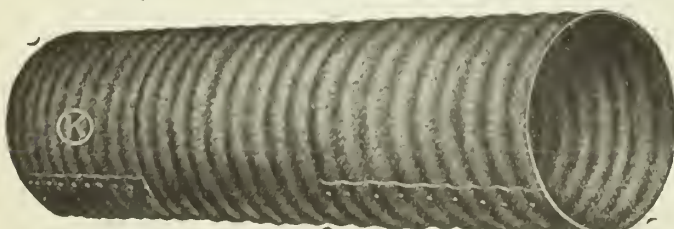
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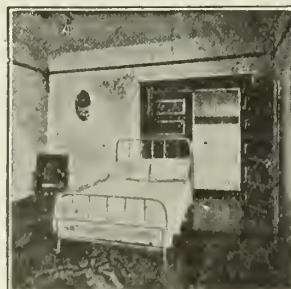
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**Wis., Oshkosh**—Bids received by Jas. Binning, highway commissioner, until 10 a. m., April 13, grading and laying macadam and culverts, etc.; check \$100; also, at same time, for building Menasha-Appleton concrete road, 3,000 feet long and 15 feet wide, bids to be on Baker steel plate joint with Carey elastic felt joints or its equivalent.

**Wis., Two Rivers**—Bids received by board public works, until 7:30 p. m., April 22, for grading, curbing, macadamizing and improving portions of various streets; bond equal to amount of bid.

#### CONTRACTS AWARDED.

**Iowa, Algona**—Contract made with Ford Paving Co., Cedar Rapids, Iowa, for paving with Lake asphalt and granite aggregate, at \$1.53 per square yard and with J. S. McLaughlin & Sons, Red Oak, Iowa, for concrete and limestone aggregate for alley paving at \$1.24 per square yard; Theo. S. DeLay, civil engineer.

**Iowa, Corning**—Contract with P. C. Flutter at \$1.96 per square yard for brick paving, \$1.34 for concrete or alley paving, 74c per lineal foot for curb and gutter and 40c for excess grading, somewhat higher than last year; there will be 10,000 square yards brick paving, 2,200 concrete, 7,000 feet combined curb and gutter.

**Iowa, Indianola**—Contract to A. R. Lake, Le Mars, Iowa, for 40,000 yards Portland cement paving at \$1.17, total of \$47,000; 4,200 yards at \$1.24½, total of \$5,229; 32,000 feet 6x20 curb at 32c, catch basins \$19.50 each.

**Iowa, Nevada**—Contracts for concrete bridges and culverts made as follows: Cole Bros., \$15,550; L. B. Child, \$5,100; J. E. Britson, \$1,400.

**Iowa, Traer**—Contract to Dearborn Construction Co., Waterloo, for 18,570 square yards brick paving at \$1.80 per square yard; Ralph B. Slippy, engineer, Waterloo.

**Iowa, Waukon**—Contract with Smith-Hamlin Construction Co., N. Y., for brick paving at \$2.06 per square yard; total of \$48,737.

**Iowa, West Union**—Contract with Sweeney Bros., Reedsburg, Wis., for 30,000 square yards paving, part brick block and part combination brick block and concrete, at \$61,000.

**Minn., Blue Earth**—Contract with Ed. Guckeen, Guckeen, Minn., state road Nos. 1 and 4, 2½ miles; with T. J. Ziemer, Easton, No. 2, 2½ miles; Jepp & Klingenberg, Wells, No. 2, 1 mile; Ed. Hayes, Wells, No. 3, 1½ miles; P. S. Odden, Bricelyn, No. 5, 1 mile; J. L. Herring, county auditor.

**Minn., Mountain Iron**—Contract to Lawrence-McCann Co., Eveleth, 1,100 square feet creosote block paving, \$33,000.

**Minn., Walker**—Contract to Ole Skoog, Cass Lake, Minn., for state rural highway No. 45, at \$43,828; I. P. Byhre, county auditor.

**Mont., Bozeman**—Contract with Warren Bros. Construction Co. of Portland, Ore., for paving Grand av. S.

**Neb., Lincoln**—Contract with Burke-Cochrane Co. for paving certain streets and with Abel & Roberts for various other streets.

**Wis., Neenah**—Contract with Allis-Chalmers Co., for a No. 4 stone crusher set up at city quarry, at \$1,190.

**\*Wis., Sturgeon Bay**—Contract to Green Stone & Quarrying Co. for 40,000 tons stone for harbor work at Lake Michigan and Green Bay ports. The company also has contracts to furnish the government scow Rip Rap with stone, and also contracts for Arcadia, Sheboygan, Ludington and Green Bay.

**Wis., Superior**—Contract with White Construction Co., Milwaukee, paving Ogden av., with Trinidad asphalt, \$41,749.

st.; address city clerk.

**Minn., Red Wing**—Council considering sanitary sewer on 3d Mont., Havre—Samuel Hanley, city engineer, will install an up-to-date septic tank at the mouth of sewer mains where they empty into Milk river.

**Mont., Miles City**—Hearing April 13, on sewer work in district 45, 12-inch vitrified pipe; estimated to cost \$1,500; J. E. Farnum, city clerk.

**Mont., Plentywood**—Proposition for sewer system carried at the recent election as also that for water works; address city clerk.

**Sask., Moose Jaw**—Proposition voted on April 24, for \$30,000 extensions to sewage disposal plant, \$115,000 for constructing storm sewers; \$43,350 for extending sanitary sewers. Geo. Johnson, secretary commission.

**Sask., Saskatoon**—Proposition voted on in May for \$27,000 for a force main across the river; for \$12,500 for extensions to the intercepting sewer, for about \$20,000 for storm sewers; Geo. Johnson, sec. Commissioners.

**S. D., Britton**—Special election will probably be called on sewer proposition; city clerk.

**Wis., La Crosse**—Council authorized laying two sewers; address city clerk.

**Wis., Merrill**—Special election April 20 for sewer bonds; Win J. Kyes, city clerk.

#### BIDS WANTED.

**Ida., Lewiston**—Bids received by city clerk, until April 15, for sanitary sewer estimated to cost \$28,500.

**Iowa, Sumner**—Bids received by E. A. Wisner, town clerk, until 7:30 p. m., May 6, for sewer system and disposal tank complete; M. Tschirgi & Sons, engineers, Cedar Rapids, Iowa; officially advertised this issue Improvement Bulletin.

**Minn., East Grand Forks**—Bids received by Jas. Gorman, city clerk, until 8 p. m., April 20, for lateral sewers in various streets; check 5 per cent.

**Minn., Rochester**—Bids received by city clerk until April 13, for sewer pipe, manholes and other supplies.

**Neb., Havelock**—City clerk will advertise for sewer work in district No. 11.

**N. D., Fargo**—Bids received by A. R. Watkins, city auditor, until 5 p. m., April 21, for sewer and water connections; check \$500.

**Sask., Swift Current**—Bids received by Geo. D. Arnott, city clerk, until April 20, for sewer and water works construction and street grading.

**Wis., Watertown**—Bids received by Frank S. Weber, city clerk, until 2 p. m., April 13, for sewer work, 10 to 18-inch vitrified pipe.

#### CONTRACTS AWARDED.

**Iowa, Burlington**—Contract to Burlington Construction Co., City for branch Hawkeye sewer at \$13.80 per lineal foot, not including catch basins, manholes or other extras.

**Iowa, Davenport**—Contract to Hydraulic Construction Co. for northwest Davenport lateral sewer at \$7,425.

**Iowa, Independence**—Contract with Dearborn Construction Co., Waterloo, for about 11,000 feet sewer pipe in 2d and 3d wards.

**Iowa, Keokuk**—Contract with Cameron, Joyce & Co., for 1,090 feet 8-inch sanitary sewer.

**Wis., Chippewa Falls**—Contract with P. L. McMillan for a sewer on Main st. at \$9,400.

**Wis., Racine**—Contract with Fred Reichert, city, for sewers in 18th st., at \$3,057.

## BRIDGES

*Items marked with asterisks not run in Daily Sheets.*

**Iowa, Council Bluffs**—County will build four culverts; 20-foot by 40-foot span, reinforced concrete deck girder bridge, 18-foot roadway, 18-inch fill; objections April 10; I. J. D. Hannah, county auditor.

**Iowa, Fairfield**—County board resolved to construct 39 concrete bridges; objections April 10; A. C. Turner, county auditor.

**Iowa, Fort Dodge**—Supervisors Webster and Pocahontas counties, plan 95-foot steel bridge, Lizard Creek, \$5,000.

**Iowa, Spencer**—Bridge will be voted on at June primaries; state engineer preparing plans.

**Minn., Crosby**—Site chosen for bridge across Mississippi west of Bear lake.

**Minn., Dakota**—A petition is being circulated for a steel bridge south of town to replace the present wooden one.

**Minn., Marshall**—County board allowed bridges in Custer, Elsvold and Grandview townships.

**Minn., Park Rapids**—Straight River dam at Osage, gave way, 4 bridges fell into river.

## SEWERS

*Notes arranged alphabetically by States.*

*Items marked with asterisks not run in Daily Sheets.*

**Iowa, Cedar Rapids**—Resolution of necessity being published for sanitary sewers in certain streets; L. J. Storey, city clerk.

**Iowa, Centerville**—Plans for sewage disposal being made by M. G. Hall, engineer; P. A. White, city clerk.

**Iowa, New Hampton**—Hearing May 6 on an 8-inch vitrified pipe sewer with manholes and tanks on Maple av.; F. B. Strike, city clerk.

**Minn., Duluth**—Norquist & Berg low bidders at \$2,563 for sanitary sewer in W. 1st st.



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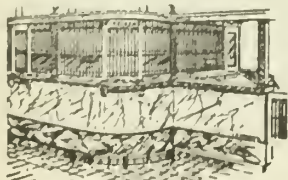
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**Wis., La Crosse**—Milwaukee road plans for Rose st. viaduct will be delivered to railroad commission this week.

**Wis., Madison**—Judge Stevens ordered highway commission plans for wagon bridge across Wisconsin river at Merimac.

#### BIDS WANTED.

**\*Iowa, Newton**—Bids received by H. S. Rayburn, county auditor, until noon, April 24, for four steel and concrete bridges; check for 5 per cent. Officially advertised in this issue of the Improvement Bulletin.

**Minn., Beaver Creek**—Bids received by B. W. Bennett, chairman, town board, 1 p. m., April 11 for two bridges; separate bids each bridge; check 5 per cent.

**Minn., Buffalo**—Bids received by John Berg, 1:30, April 28, for corrugated metal culverts for year f. o. b., all shipping points in Wright county.

**Minn., Caledonia**—Bids received by Robt. Burns, county auditor, 1 p. m., April 17, for grading and culverts, one bridge state road No. 1; check 5 per cent.

**Minn., Cambridge**—Bids received by G. C. Smith, auditor, Isanti county, until 1 p. m., April 27, for state bridge 1059; check for 5 per cent; officially advertised, this issue Improvement Bulletin.

**Minn., Canby**—Bids received by O. Ferguson, township chairman, or Wergeland, 2 p. m., April 15.

**Minn., Duluth**—Bids received by Odin Halden, county auditor, 2 p. m., April 27, for construction of 24 small steel bridges and 57 corrugated galvanized iron culverts; check for 10 per cent.

**Minn., Duluth**—Bids received by R. Murchison, commissioner, 10 a. m., April 17, for concrete culvert across Oneota st.; check for 10 per cent.

**Minn., Hibbing**—Bids received by V. J. Benoe, clerk, town of Stuntz, 8 p. m., May 6, for 4,000 feet steel culverts; address Hibbing.

**Minn., Lake Park**—Bids received by town board of Cuba, C. O. Noben, chairman, 1 p. m., April 13, for construction of two bridges across Hay Creek, 1 across Bitter creek, repairing bridge over Buffalo river.

**Minn., Lynd**—Bids received by O. M. Larsen, clerk, 2 p. m., April 24, for building state bridge No. 1260, 30-foot span, 16-foot roadway concrete foundation; check for 5 per cent.

**Minn., Mora**—Bids received by Anton Peterson, county auditor, 10 a. m., April 24, for concrete culverts and road work; check for 5 per cent.

**Minn., Red Wing**—Bids received by C. H. Meyer, county auditor, 1:30, April 21: state bridge No. 1222, Florence township, 23-foot beam span, concrete floor on gravity abutments, 18-foot roadway; state bridge No. 1204, Florence township, two 45-foot reinforced concrete deck girder spans, 18-foot roadway, reinforced concrete abutments, one reinforced concrete culvert, 6x10, 24-foot roadway Minneola township; state bridge No. 911, Haycreek township, 18-foot clear beam span, 18-foot roadway; state bridge No. 913, Goodhue township, 28-foot clear beam span, 18-foot roadway, gravity abutments, state bridge No. 1240, township of Zumbrota, 100-foot P. C. truss span and 3 30-foot approaches, 18-foot roadway; state bridge No. 1194, Cannon Falls township, 75-foot truss span, 18-foot roadway on concrete abutments; plans by state highway commission; check for 5 per cent.

**Minn., St. James**—Bids received by J. C. Jensen, county auditor, 2 p. m., April 28, for building state bridge 1,254, state road 5, Airian township, 14-foot span, 18-foot roadway, concrete slab floor, reinforced concrete foundation; check 5 per cent.

**Minn., Verndale**—Bids for bridge No. 1087 rejected; bids received on different plans at Wing River Hall; April 28; I. J. Cottrell, clerk; plans at clerk's office.

**Minn., Wadena**—Bids received 3 p. m., April 25, for building bridge across Partridge River section 15, at Thomastown hall, 40-foot span, 18-foot roadway, concrete floor on concrete abutments; check for 5 per cent; A. J. Rowe, town clerk.

**Neb., St. Paul**—Bids received by county clerk, 10 a. m., April 23, for bridge, Middle Loup river, alternate designs; high truss inclined cord steel, 16-foot roadway, 2 304-foot spans, creosoted wood block floor, concrete pier and abutments; 2d, high truss steel bridge, 16-foot roadway, 5, 145-foot spans, creosoted wood block floor, concrete piers and abutments; check for \$1,000; K. D. Bahensky, clerk.

**Wis., Fond du Lac**—Bids received by A. S. Wilkinson, county clerk, 9 a. m., April 15, for building a reinforced concrete bridge, abutments, Mullet river, town of Forest; check for \$100.

#### CONTRACTS AWARDED.

**Minn., Springfield**—Contract 30-foot steel bridge let to Peter Hanson, Springfield.

**Mont., Livingston**—Contract to C. T. Heaton for 3 concrete culverts at \$1,025.

**Mont., Missoula**—O. C. Pepperd Bridge Co., this city, received contract for three bridges in Hill county.

**Mont., Twin Bridges**—Berger Manufacturing Co., got contract for culverts pipe in county for 1914.

**N. D., Cando**—Contract awarded to Geo. W. Kemper, Minot, for 50 steel bridges, \$5,100; Cando Impl. Co., \$5,660; Twin City Bridge Co., Minneapolis, \$5,992.

**N. D., Grand Forks**—Contract awarded to Jardine & Anderson, Fargo, for steel and concrete bridges.

**Wis., Rice Lake**—Worden-Allen Co., Milwaukee, was given contract to build two bridges.

## WATER WORKS

*Items marked with asterisks not run in Daily Sheets.*

**Iowa, Knoxville**—David G. Fisher, Davenport, engineer, has begun preliminary survey between city and Des Moines river for water supply for this place; cost \$70,000.

**Iowa, Stanton**—Election April 14, to vote on water works plant.

**Minn., Buhl**—Dan Kinsman, Edw. Leach and others were appointed to look up plans for a water system for Buhl.

**Minn., Hibbing**—This city, Chisholm and Buhl may join for installation of joint line to get pure water from Sturgeon Lake.

**Mont., Livingston**—R. E. McDonald, consulting engineer, Kansas City, Mo., engaged to investigate water system, reports pumping facilities all right, but mains too small and suggests larger mains be laid; W. S. Hartman, city engineer.

#### BIDS WANTED.

**Iowa, Sheffield**—Bids opened May 1, for construction of water works; E. E. Harper and O. W. Stiles, engineers, Kansas City, Mo.

**Minn., Northome**—Bids received 7:30, April 22, for repairing water tank; G. A. Hanchett, village clerk.

**\*Minn., White Bear**—Bids received by J. E. Extrand, village clerk, until 7 p. m., April 21, for water mains; check for \$100. Officially advertised in this issue of the Improvement Bulletin.

**Neb., Hastings**—Bids received April 14, 5 p. m., for water system, bidder to furnish all labor and material; check for 5 per cent; A. T. Bratton, clerk.

**Neb., Long Pine**—Bids received 8 p. m., April 20, for construction of a stand pipe with foundation and connections complete; check for 5 per cent; Towl Engineering Co., Omaha, engineers.

**Neb., North Platte**—Bids received by I. E. Ware, secretary, Hershey, Neb., 700 feet concrete weir wells, head and sluice gates; check for \$250.

#### CONTRACTS AWARDED.

**Iowa, Audubon**—Ward & Weighton sub-let contract for reservoir to Jas. Law.

**Man., Winnipeg**—Contracts awarded to Canada General Electric Co., Winnipeg, Manes Electric Co. and Northern Electric Co., Winnipeg, for materials light and water department.

**Minn., Excelsior**—J. F. Druar, Oscar Claussen Engineering Co., consulting engineers, 314 Commercial building, St. Paul, report contract let for water works; National Co., Northwest, John P. Green, proprietor, Albert Lea, division 1; Wm. Morse, Excelsior, division 3; also Mr. Morse, building of pumping station, Chicago Bridge & Iron Co., steel tank, lake intake bids rejected; new bids soon.

**Neb., Superior**—National Co., South Bend, Ind., awarded contract for water works.

**S. D. Utica**—Contract let to Camaha Structural Works, for tower and tank for water system, W. L. Bruce, Yankton, pumping plant and distributing system; well dug soon.

## DRAINAGE AND IRRIGATION

*Notes arranged alphabetically by States.*

**Minn., Caledonia**—Former state engineer Ralph, St. Paul, is completing surveys for a \$100,000 drainage system in Houston county; open ditch straightening Root creek; ready for bids in May; 1,500,000 to 2,000,000 yards excavation; all dredge work.

**Iowa, Clarion**—Hearing on proposed ditch 99, Franklin & Wright counties, 1 p. m., May 8, F. E. Osier, auditor, Clarion.

**Minn., Albert Lea**—County board established ditch 28, about \$31,000.

**Minn., Aitkin**—Hearing on \$200,000 drainage project, South-eastern Aitkin county, was set for some day this week, if



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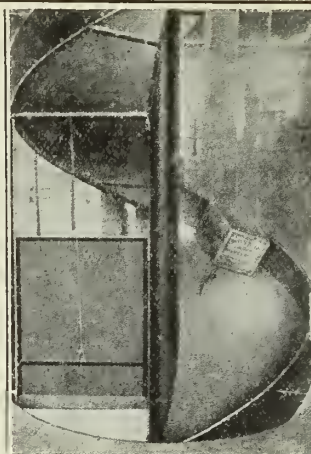
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approved, bids will be called in a week. J. B. Lemire, auditor.

**Minn., Crookston**—County Auditor Welte received petition for judicial ditch 51, on line between Polk and Norman counties.

**Minn., Fosston**—County ditch 90, proposed would be 11 miles through Hammond, Vineland and Scandia townships.

**Minn., Fairmont**—Judicial ditch 28, viewer's report \$78,860 benefits; estimated cost, \$72,251. S. C. Armstrong, engineer.

**Minn., Henderson**—Hearing 11 a. m., May 5, on proposed county ditch town of Jessenland, Fred Hoppenstedt, auditor, Sibley county.

**Minn., Litchfield**—Hearing April 25, on ditch petitioned for by P. W. McCarney, A. O. Palmquist, county auditor.

**Minn., Owatonna**—Hearing April 21 on county ditch 3. M. J. Parcher, auditor, Steele county.

**Minn., Faribault**—Letting \$20,550 ditch, town of Webster, set for April 10.

**Mont., Billings**—Part of additional work, Huntley project, about \$150,000, will be advertised and rest done by government; \$10,000 drag line scraper to be built at once.

**Mont., Butte**—General Chas. S. Warren of Butte and others started Carey irrigation project, Southeast Montana; Little Missouri Land & Irrigation Co., \$350,000; nearest railroad point, Belle Fourche, S. D., forty-five miles; start work this summer.

**Mont., St. Ignatius**—E. F. Taber, engineer, Flathead project, received bids on earth work and tunnel, Pablo canal, lateral 31A; Nelson Rich, Prosser, Wash., \$13,950; Clifton-Oppegate Co., Spokane, \$16,515; A. L. Markhus, Polson, Mont., \$17,355; Baley & Kress Construction Co., Livingston, Mont., \$17,931.

#### BIDS WANTED.

**Iowa, Algona**—Bids received until 10 a. m., April 21, for construction district 94, B. E. Norton, auditor, Kossuth county.

**Minn., Alberta**—Bids received until 8 p. m., April 14, for furnishing and laying 1,700 feet 8-inch tile and 900 feet 10-inch in village; John Geib, village clerk.

**Minn., Bemidji**—Bids received by J. L. George, auditor, Beltrami county, until 10 a. m., April 28, for judicial ditch No. 21, about 220 miles, estimated to cost \$311,850; check for 10 per cent; officially advertised, this issue Improvement Bulletin.

**Minn., Duluth**—Bids received by Odin Halden, auditor, St. Louis county, until 3 p. m., April 27, for county ditch No. 2, estimated to cost \$40,507; check 10 per cent; officially advertised this issue Improvement Bulletin.

**Minn., Stillwater**—Sale of judicial ditch 3, Anoka and Washington counties, set for 10 a. m., April 11.

**Mont., Lewistown**—Bids wanted by Winnett Irrigation Co. for construction 60 miles ditches, all or part; address E. H. Holmboe, secretary, office of C. E. Shoemaker & Co., Lewistown.

#### CONTRACTS AWARDED.

**Iowa, Sac City**—Contract awarded to W. C. Lookingbill, for furnishing tile, district 49, construction on track to James White; W. D. Maxwell, appointed engineer for survey to establish district 46; bids received until 2 p. m., April 24, for improvements district 46, tile and construction work; check 10 per cent; J. Wilbur Neal, county auditor.

**N. D., Grand Forks**—A. F. Turner awarded contract for draining large area in Nelson county this spring.

for Fred Scholl, Austin; press and common brick, hollow tile, 3-story and basement, 30x96, fir finish, hardwood maple floors, hard plaster, wiring, plumbing, composition roof, steam heat, plans ready April 15.

**Minn., Bemidji**—Geo. Cochran, contractor and lumberman, will donate \$1,000 for a first-class summer hotel on Lake Bemidji; stock to amount of \$10,000 could be sold here.

**\*Minn., Dawson**—E. H. Sund, Minneapolis, architect, is preparing plans for a hospital here for Drs. Stemsrud & Johnson; 35x71, tile, modern; plans out in three weeks; architect will take bids.

**Minn., Jackson**—M. D. Ashley is building an addition to the Ashley house.

**Minn., Little Falls**—Benedictine sisters contemplate new hospital building; site has been purchased; building proposed, will cost from \$50,000 to \$60,000.

**Minn., Morris**—Dr. E. T. Fitzgerald has purchased a residence property and will convert it into a hospital.

**Minn., Rochester**—Preliminary steps taken for new hotel by Roberts' Hotel Co.; plans about completed; 5-story, basement and sub-basement, about 200 rooms.

**Minn., Rochester**—Hoffman & Mosse, architects, city, said to be drawing plans for two new hotels here.

**Minn., Virginia**—Plans in progress by Wangenstein & Giliuson, architects, Duluth, for improvements on hotel owned by Duluth Brewing & Malting Co.

**Mont., Cascade**—Plans prepared for addition to Frank Ball's hotel.

**Mont., Columbus**—Board of directors appointed to investigate conditions for a stock company hospital; frame structure, brick or stone foundation, cost complete \$7,500; contain 14 or 16 wards; A. L. Thomas, chairman committee; hope to start building next month.

**Mont., Columbus**—Adolph Schneider will add a third story to his hotel property; containing 20 rooms, baths and hotels.

**Mont., Ulm**—Frank Ball has plans drawn for new hotel building and will soon have building under construction.

**Neb., Lincoln**—Plans for hospital on Orthopedic hospital grounds, being revised by Burd F. Miller, architect, Omaha; 59x112, 2-story and basement, \$40,000.

**Neb., York**—Country club proposes expenditure of \$10,000, for a modern club building; address secretary.

**N. D., Sentinel Butte**—Knodle & Boyce figuring on extensive improvements to the Hotel Butte.

**N. D., Westby**—Local capital interested in erection of a modern hotel on new townsite; address mayor.

**Ont., Fort Frances**—James Paul, owner, will make improvements to amount of \$3,500 on Fort Frances hotel.

#### BIDS WANTED.

**Minn., Kelliher**—Geo. E. Gunderson, city, owners, taking bids on hotel, 74x80, 2-story and basement, \$10,000; C. Howard Parsons, architect, 601 Phoenix building, Minneapolis.

**\*Minn., Waseca**—Bids received by Theo. Peterson, county auditor, until 2 p. m., May 1, for state rural highway No. 34, estimated at \$22,632; check for 10 per cent. Officially advertised in this issue of the Improvement Bulletin.

**N. D., Minot**—C. H. Parker will soon call for bids for extensive improvements on Leland hotel; an additional story will be added and rooms in new part fitted up with baths and made entirely modern; rooms in old part will be re-finished.

**Wis., Little Rapids**—Bids received by county board until April 18, for a tuberculosis sanatorium for Brown county; 67x101, T-shaped, frame, plastered, fireproof; P. T. Benton, architect, Green Bay, Wis.; artesian water, patent and exterior plaster, bath rooms, maple floor, yellow pine finish, one dumb waiter; Elmer S. Hall, clerk, Brown county, Green Bay, Wis.

#### CONTRACTS AWARDED.

**Iowa, Waterloo**—Contract with F. W. Chapman for hospital for incurable insane at \$24,100.

**Minn., Bemidji**—Contract let to Hoaglund Bros., Minneapolis, for modern, brick, fireproof, \$40,000 Markham hotel annex; other bidders were Edward Jackson, Geo. Kretz, both of Bemidji; Madson Bros., Minneapolis; Johnson Construction Co., Fargo; Libby & Nelson, Minneapolis; Hancock Construction Co., Minneapolis and Naufft Bros., of Duluth.

**Neb., Omaha**—Contract for structural iron and steel for Fontanelle hotel let to American Bridge Co., Pittsburg, Pa.; general contractors are Selden-Breck Construction Co., St. Louis, Mo.

**Wis., Chippewa Falls**—Contract made with H. L. Stevens & Co., Chicago, architects, for modern fireproof hotel; site secured, reinforced concrete, steel construction, 60 to 100 rooms, stores, etc., on first floor, possibly Commercial club on top floor.

## HOTELS AND HOSPITALS

*Notes arranged alphabetically by States.*

*Items marked with asterisks not run in Daily Sheets.*

**Iowa, Boone**—Country club will either remodel or build modern club house; W. G. Crowe, secretary.

**Iowa, Iowa City**—State board of education voted to build \$50,000 Nurses' home for state university.

**Iowa, Primghar**—Geo. Ward proposes erection of modern hospital.

**Iowa, Vinton**—J. M. Gibney has repurchased Ralyea hotel and expects to remodel it at cost of from \$7,000 to \$10,000; will make it entirely modern.

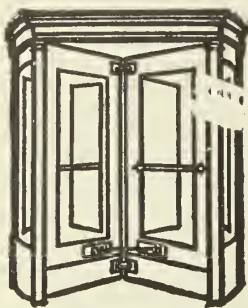
**Iowa, Waukon**—Excavation has begun for the 16-room addition to Grand hotel; Mr. Boomer, owner.

**Minn., Annandale**—Mr. Tuelle will rebuild hotel recently burned.

**\*Minn., Austin**—Kirby T. Snyder, architect, 751 Plymouth building, Minneapolis, has plans in progress for 30-room hotel



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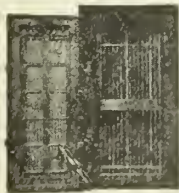
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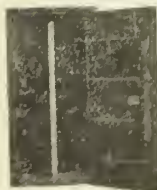
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## THEATRES AND HALLS

*Notes arranged alphabetically by States.*

**Ida., Pocatello**—Alhambra Theater Co., Ogden, Utah, considering erection of large and fully modern moving picture theater to cost \$100,000.

**Man., Winnipeg**—Plans prepared for a 14-story club building, to cost \$250,000, and to house every athletic and sporting organization in the city; G. H. Genslinger, Minneapolis, is undertaking to float the proposition, together with ex-mayor Waugh, Joseph Fahey and H. S. Edwards.

**Minn., Lester Prairie**—K. T. Snyder, architect, Plymouth building, Minneapolis, taking bids on lodge and business building owned by Wees & Kuhlman, city; 76x76, 2-story and basement.

**Minn., Mankato**—Committee appointed to investigate project for a new Masonic building has reported favorably; D. E. Walker, master.

**Minn., New Richland**—Edward Breilein and Helmer Hanson are having plans made for a moving picture theater building.

**Minn., Rochester**—Commercial club has purchased a building which will be remodeled for club room; address secretary.

**Minn., Virginia**—Parties figuring on a theater building to cost \$100,000 are expected to close a deal for a site within a short time; address the mayor.

**Minn., Wabasha**—The Dumfries Hall association will build hall at Dumfries (not a postoffice); 40x80, tile brick, concrete basement; stage, dancing room, smoking room and cloak room; Joseph Whitte, president.

**Minn., Windom**—Plans in preparation by Albert Schippel, architect, Mankato, Minn., for a store and lodge building for Wisdom lodge of Odd Fellows, No. 108, A. F. Strunk, secretary; 34x122, 2-story, cost \$20,000; bids taken later by building committee; steel beams, reinforced concrete fireproofing, cut stone, common and pressed brick, steam heat, electric light, sheet metal sky lights and ceiling, composition and asbestos roofing, common and patent plaster, paint, varnish, plate and prism glass, oak finish, hand freight elevator, 5x5.

**Minn., Windom**—Redding & Stroud, owners, taking figures on theater; 35x80; P. J. Linhoff, architect, Germania Life building, St. Paul, Minn.

**Mont., Whitefish**—Plans for remodeling of Great Northern dormitory completed and sent to St. Paul for approval; private and shower baths, bowling alley, club room, etc.

**Mont., Wibaux**—Rucker Bros. have plans under way for new opera house, 40x75.

**Nebr., Lincoln**—Plans started by Berlinghoff & Davis, architects, Security Mutual Life building, city, for club building for Eagles club, Raymond Frye, secretary; 50x150, 3-story and basement, \$50,000.

**N. D., Bowbells**—Opera house block burned; loss \$15,000; J. M. Mohr, manager.

**S. D., Watertown**—Plans completed by Bentley & Hausler, architects, Pioneer building, St. Paul, Minn., for kitchen, dining room and lodge rooms for Masonic temple; 2-story and basement, 50x100; \$50,000.

**Wis., Horicon**—Horicon State Bank, owner, taking figures for lodge and bank building, 45x90, 2-story and basement; H. W. Buemming, architect, 521 Jackson st., Milwaukee.

**Wis., Manitowoc**—The Turnverein considering extensive improvements for the Orpheum theater; exterior and interior changes proposed and entire redecoration of hall; Edward Schmitz, member board directors.

**Wis., Washburn**—The Grange will build new hall, 24x40.

**Mont., Lewistown**—Plans for proposed theater and business block about completed; expected that bids will soon be asked for; address mayor.

### BIDS WANTED.

**Wis., Port Washington**—John Menge, Jr., architect, 603 Mathews building, Milwaukee, taking bids for theater, 1-story and basement.

**Wis., Sheboygan**—Rev. Geo. Pence, 427 Superior st., ready for bids for hall, church and gymnasium for First Presbyterian church; 40x44, with L 36x80; Wm. C. Weeks, architect, 720 Ontario st.

### CONTRACTS AWARDED.

**Iowa, Le Mars**—Contract for new motion picture theater here let to Zack Eyres, city; 60x100, 2-story and basement; soon be ready to place orders for material.

**Iowa, Sioux City**—Contract with Coomer & Small, city, for theater building to cost \$100,000; fireproof and modern; Harry Holmes, manager.

**Mont., Havre**—Contract to N. T. Lease, Great Falls, Mont.,

for proposed theater building owned by Mrs. Harrington, Chicago; entirely modern.

**Wis., Eau Claire**—Contract for moving picture theater near Barstow st. bridge let to Hoeppner-Bartlett Co.; concrete and brick, nearly fireproof.

## PUBLIC BUILDINGS

*Notes arranged alphabetically by States.*

**Alta., Edmonton**—A temporary market building will be erected on old site; Jno. Chalmer, city commissioner.

**Ida., Burley**—This city and Caccia county planning to co-operate in building jail; city clerk.

**Iowa, Eagle Grove**—Proposition for \$17,000 city hall carried; city clerk.

**Iowa, Rock Rapids**—Movement on foot for a new court house; E. J. Reigel, auditor, Lyon county.

**Iowa, Sioux City**—Site for \$500,000 court house practically decided on; work to start as soon as plans are completed and contracts awarded; E. E. Hosmer, auditor Woodbury county.

**Minn., Brainerd**—Plans in progress by C. Howard Parsons, Phoenix building, Minneapolis, for city hall, jail and fire station; 51x114, and 37x60, 3-story and basement, \$80,000.

**Minn., Breckenridge**—Tentative plans for city hall are being worked out, will contain auditorium with seating capacity of 600; city clerk.

**Minn., Fairmont**—Plans for new armory for company E, prepared by George Pass, architect, Mankato; 60x120, brick, \$16,000.

**Minn., Fairmont**—Commissioners will ask architects to submit plans for poorhouse and other buildings at Buffalo Lake, Rutland township, on April 23; H. C. Nolte, auditor, Martin county.

**Mont., Missoula**—Bidders for the new grand stand were: E. S. Newton, \$12,285; J. F. Harrington, \$14,495; Olson & Johnson, \$14,060.

**Nebr., Guide Rock**—Special election April 14, to vote on a \$60,000 court house; E. W. Ross, county clerk.

**Nebr., Loup City**—Vote taken May 12, on \$75,000 court house, plans being prepared by Berlinghoff & Davis, architects, Lincoln.

**Nebr., Loup City**—Special election May 12, to vote on \$75,000 court house; county clerk.

**Nebr., Wahoo**—Saunders county is considering a \$20,000 jail; county clerk.

**N. D., Minot**—Bids soon advertised for alterations in county court house; plans by H. C. Frohm, county surveyor; L. J. Thompson, county auditor.

**Ont., Fort Frances**—A brick and stone armory building will be erected; cost \$50,000; Chas. E. Parry, city engineer.

**Sask., Moose Jaw**—City council will expend an additional \$50,000 on new exhibition grounds; E. B. Bonnell, city clerk.

**Sask., Saskatoon**—Proposition will be voted on in May for \$15,000 for a powerhouse, \$10,000 for police patrol and fire alarm systems, \$6,000 for sedimentation basin, \$10,000 for buildings at exhibition grounds; Geo. Johnson, secretary of commission.

**S. D., Rapid City**—Carnegie fundation will provide \$12,500 for city library and city binds itself to conditions required; city clerk.

**Wis., Ashland**—Figures taken by H. W. Buemming, 521 Jackson st., Milwaukee, about May 1, for court house here. \$125,000.

**Wis., Chippewa Falls**—State board of control has decided on plans for woman's reformatory to cost \$288,000; powerhouse with steam and electric equipment, administration building and two cottages with capacity of 30 inmates each.

### BIDS WANTED.

**Alta., Calgary**—Tenders shortly called for on erection of industrial building; plans completed; A. G. Graves, city commissioner.

**Minn., Albert Lea**—Bids received by C. E. Brainerd, auditor Freeborn county, until 10 a. m., April 28, for a heating plant, plumbing system, electric wiring and water and lighting system for county poor farm building; check 10 per cent; officially advertised this issue Improvement Bulletin.

**\*Minn., Excelsior**—Bids received by Harry B. Nistran, secretary board of park commissioners, until 8 p. m., April 17, for erection of public baths; plans by H. Edward Walker, Lumber Exchange, Minneapolis; check for \$100. Officially advertised in this issue of the Improvement Bulletin.

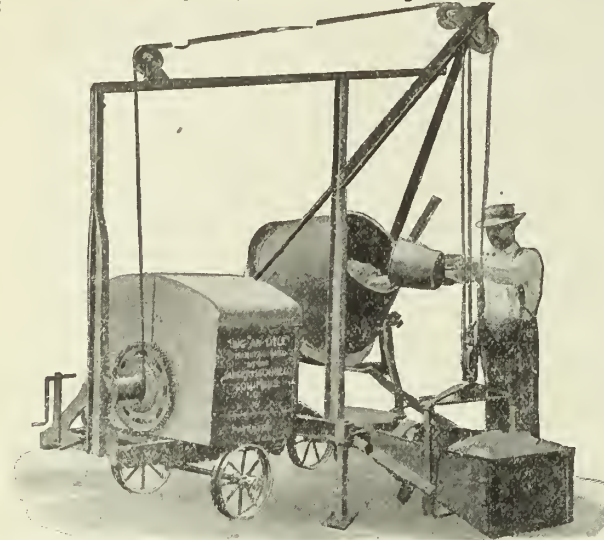
**Minn., Hutchinson**—Bids soon called for on city hall; C. E. Bell, architect, Security Bank building, Minneapolis.

**Minn., Wabasha**—Bids received by Geo. J. Glnther, auditor, Wabash county, until 2 p. m., April 21, for painting outside court house, poorhouse, and county hospital.



## The 1914 "Big-an-Little" Now Ready

MODEL  
The Biggest and Best Small Mixer on Earth. See the One Bright Spot of the Chicago Show.



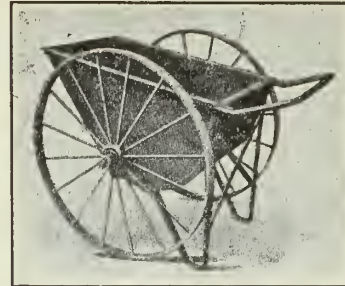
The tremendous enthusiasm shown in the "Big-an-Little" mixer by its users and dealers is indicative of the exceptional advantages which the "Big-an-Little" offers.

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Speakes Lime & Cement Company CO. UMBUS, - OHIO  
Contractors Equipment Company Superior, Wisconsin  
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## CONTRACTORS' NECESSITIES



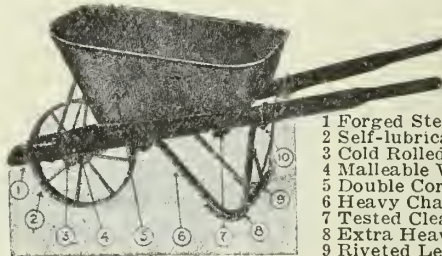
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Easy to set up and move. Constructed the same as power derrick, but is operated by steam, gasoline or other power. Equipped with an automatic stop to prevent the boom from swinging. Weight of complete derrick, 225 pounds. Capacity 1,500 pounds.



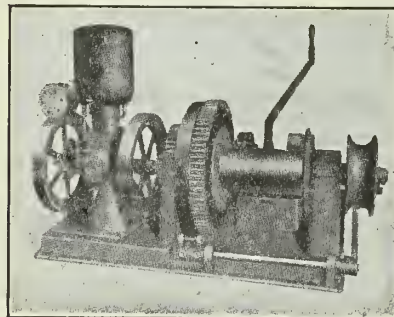
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- 3 Cold Rolled Steel Shaft
- 4 Malleable Wheel Supports
- 5 Double Cornered Riveted Trays
- 6 Heavy Channel Steel Legs
- 7 Tested Clear Maple Handles
- 8 Extra Heavy Leg Shoes
- 9 Riveted Leg Braces
- 10 Patented Handle Clamps



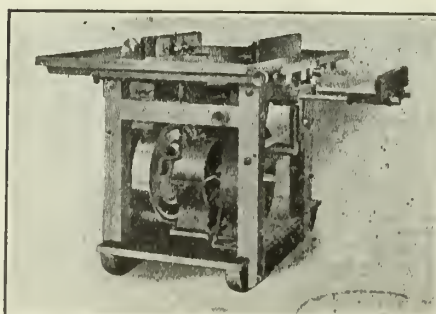
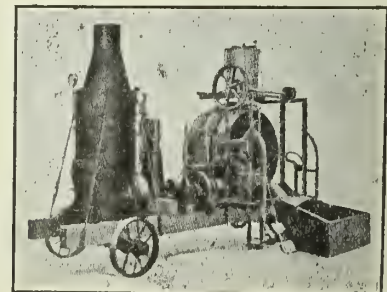
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**Mo., Excelsior Springs**—Bids received by O. Wenderoth, supervising architect, Washington, D. C., until 3 p. m., May 13, for construction complete, including mechanical equipment, lighting fixtures and approaches of the U. S. postoffice; stone and brick facing with ornamental terra cotta cornice, composition roof.

**Mont., Dillon**—Plans for city hall accepted and bids for construction will be received April 20; address city clerk.

**Sask., Moose Jaw**—Bids wanted until April 16, for erection of fire hall to cost \$25,000; Reilly, Dawson, Hancock & Reilly, architects; E. B. Bonnell, city clerk.

**Wis., Fond du Lac**—Bids called for soon as plans are finished for reformatory buildings; Ralph E. Smith, president board.

**Wis., Lancaster**—Bids received by W. J. Brennan, chairman, county board, until 2 p. m., April 20, for shingling of sheriff's residence with asbestos shingles.

#### CONTRACTS AWARDED.

**Minn., Staples**—Contract for jail building awarded to Des Marias Bros., at \$2,589; cell work to Pauley Jail Building Co. at \$725; plumbing and heating to G. W. Horner, city, at \$459.

**N. D., Williston**—Contract for the federal building awarded to Geo. W. Stiles Construction Co., Chicago, Ill., at \$82,828; limestone construction.

## SCHOOLS

*Items marked with asterisks not run in Daily Sheets.*

*Notes arranged alphabetically by States.*

\***Iowa, Cedar Rapids**—Bids received by J. W. Ingold, secretary board of education, until 1 p. m., May 6, for a vocational high school building; check for 2 per cent. Officially advertised in this issue of the Improvement Bulletin.

**Iowa, Guthrie Center**—Plans by architect J. W. Henry, Aberdeen, S. D., for a high school, 3-story, 95x74, brick and concrete, cost \$35,000; concrete foundation, mat face and common brick, Bedford stone, asbestos shingle roof, galvanized iron cornice, plate and d. s. glass, hard wall plaster, steam heat, cement, slate and maple floors, oak and birch finish, 2 boilers, slate black boards, cementing, electric and fire brick, decorating, iron beams and stairs, fireproofing, metal lath, plumbing, seating, ventilators; architect desires information on iron stairs and exhaust ventilators.

**Iowa, Ogden**—\$35,000 school bonds voted and carried.

**Mich., Manistique**—Plans prepared by architects, Foeller & Schober, Green Bay, Wis., for parochial school; cost \$25,000; brick.

\***Minn., Granada**—Kirby T. Snyder, architect, 751 Plymouth building, Minneapolis, has plans in progress for heating, ventilating and plumbing for high school at Granada. Bids called for soon. Lars Pearson, 1808 Melbourne av. SE., Minneapolis, general contractor.

**Minn., Melrose**—District No. 119, 1-room frame school building; clerk, N. P. Sand, Melrose, Minn.; approved by state commissioner.

**Minn., Montevideo**—High school and grade building according to plans by Wm. B. Ittner of St. Louis, Mo.; clerk, C. A. Fosnes; approved by state commissioner.

\***Minn., New Ulm**—Kirby T. Snyder, 751 Plymouth building, Minneapolis, has plans complete for high school; 60x80, 2-story, concrete foundation, frame, stucco exterior, composition roof, b.t., d.s. and prism glass, steam heat, fan ventilation, water system. See official advertisement in Improvement Bulletin next week.

\***Minn., St. Francis**—Kirby T. Snyder, architect 751 Plymouth building, Minneapolis, has plans in progress for heating, plumbing and ventilating high school, St. Francis. Bids called for soon. Stromberg & Samuelson, Milaca, Minn., general contractors.

**Neb., Omaha**—The Field club, Improvement club is aiming to procure a new school building, for Field Club district.

**Neb., Oshkosh**—City is agitating proposition of a new school.

**N. D., Ardoch**—Plans on file 1:30 p. m., May 4, for public school building, at Builders' & Traders' Exchange, Grand Forks, N. D.; J. W. Ross & Son, architects.

\***N. D., Langdon**—School to be built, Moscow township; 22x28, modern; Manuel Smith; heating system.

**S. D., Aberdeen**—Architect J. W. Henry, Aberdeen, has contract for drawing plans for new high school at Guthrie Center, Iowa; brick and reinforced concrete, gymnasium, 38x60, modern; cost \$35,000.

\***S. D., Wilmot**—Bids received by A. Minder, secretary board of education, until 8 p. m., April 24, for a public school building; check for 3 per cent. Officially advertised in this issue of the Improvement Bulletin.

**Wis., La Crosse**—Physical training school for normal will be erected, gothic style, exterior, paving brick, Bedford stone trim, 196x136, 3-story, gymnasium, swimming pool, lockers, shower baths, laboratories; cost \$100,000.

**Wis., Saxon**—\$20,000 high school will be built here; brick, stone foundation, modern.

#### BIDS WANTED.

**Iowa, Denison**—Elgar L. Barber, architects, Denison, Iowa, has plans complete for ventilating system, new boiler house, Central school, 6,800 feet of radiators; bids received until 2 p. m., April 30; address architect for plans.

**Iowa, Glenwood**—Bids received until 1 p. m., April 18, for school in Wrights county, Lyons township; check for 5 per cent; plan with county superintendent; L. N. Haynie, secretary.

**Iowa, Marshalltown**—Bids received until 4 p. m., May 5, for an 8-room high school; check for 5 per cent; plans with A. Palmer, superintendent of schools, W. M. Clark, secretary, H. E. Reimer, architect, Marshalltown, Iowa; cost \$30,000.

**Iowa, Tingley**—Bids received until 1 p. m., April 25, for a school house, district No. 8, C. E. Bosworth, secretary; plans with secretary.

**Iowa, Toledo**—Bids to be in May 1, for \$70,000 high school, Proudfoot, Bird & Rawson, architects, Des Moines, Iowa.

**Iowa, Toledo**—Bids received by J. H. Ross, secretary independent school district, until 2 p. m., May 4, for a new school building, heating, plumbing and electric wiring; Proudfoot, Bird & Rawson, architects; officially advertised this issue Improvement Bulletin.

**Minn., Jackson**—Bids received until April 18, for school district 93, Jackson county, 32x32; bids on superstructure only; plans with clerk; H. L. Garber, Jackson, Minn.

**Minn., New Barnesville**—Bids received by E. Aamodt, clerk school district No. 60, until 7:30 p. m., April 25, for school bonds to the amount of \$55,000; check \$500; officially advertised this issue Improvement Bulletin.

**Minn., St. Cloud**—Bids received until April 16, 5 p. m., for a high school and hall; plans at C. F. Ladner Hardware Co.; also at Builders' Exchange, St. Paul, Minn., and Minneapolis; check for 5 per cent; Rev. Leo Gans, pastor.

**Mont., Deer Lodge**—Bids received until April 18, noon, for high school building, lots 2, block B, Powell county; check for 5 per cent; plans with clerk, Emma Johnson; architects, Link & Haire, Butte City, Mont.

\***Neb., Norfolk**—Bids received by M. E. Crosier, secretary school district, until 8 p. m., May 4, for two brick school houses. Officially advertised in this issue of the Improvement Bulletin.

**N. D., Belfield**—Bids received until 2 p. m., April 11, for addition to Roosevelt school; plans with J. O. Milsten, clerk, district 13, Belfield, N. D., at Builders' Exchange, Fargo, N. D.; check for 5 per cent; architects Haxby & Gillespie, Fargo, N. D.

**N. D., Spiritwood**—Bids received by E. J. Clamp, clerk school district No. 26, Stutsman county, until 1 p. m., May 1, for a 4-room brick school building; Haxby & Gillespie, architects, Fargo; check for 5 per cent; officially advertised, this issue Improvement Bulletin.

**Ont., Fort Arthur**—Bids received until April 13, by J. Morgan, secretary board of education, for addition to north and south ward schools.

**Sask., Perdue**—Solid brick school, \$5,000, will be built here.

**Sask., Weyburn**—Bids are being called for south side school; board considering school for north side.

**S. D., Vermillion**—Bids received until April 22, 9 a. m., for construction of Chemistry building for university of South Dakota; check for 2 per cent; Joseph Schwartz, architect, Sioux Falls, S. D.; officially advertised in the Improvement Bulletin this week.

**Wis., Arcadia**—Bids received until 11 a. m., April 28, for erection and completion of a solid brick and stone school, including all labor and material; plans by Parkinson & Dockendorf, architects, La Crosse, Wis., may be had on application to architect; plans also at Builders' Exchanges, Milwaukee, Wis., Minneapolis, Minn.; check 2 per cent; W. C. Bohrnstedt, clerk; bids taken by board of education.

**Wis., Oshkosh**—Bids will be called for soon for new 11th ward school; 2-story, 10 rooms, brick, Bedford stone trim, modern; cost \$50,000.

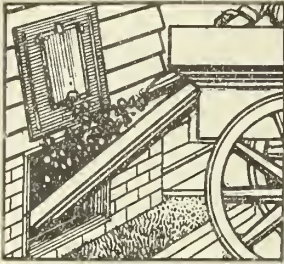
#### CONTRACTS AWARDED.

**Alta., Edmonton**—Contract for university of Alberta awarded to Geo. A. Fuller Co., Ltd., Winnipeg.

**Neb., Central City**—Contract awarded to Grand Island Electric Co., Grand Island, Neb., at \$912, for electric wiring in high school; other bids were: Martin Bros., Central City, Neb., at \$923; F. H. Wheeler, Havelock, \$945; Berlinghoff & Davis, architects, Lincoln, Neb.



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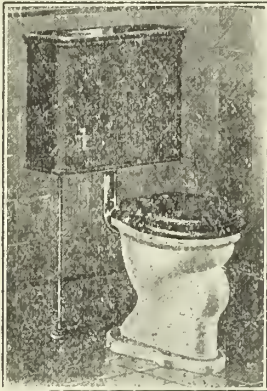
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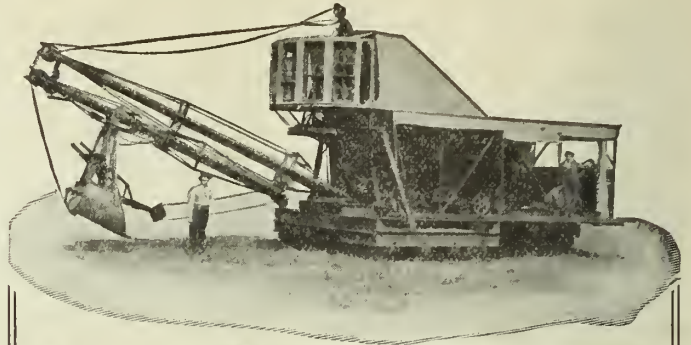
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A Dollar Saved is a Dollar Earned. Our boilers are fuel savers. These goods are not controlled by the trust, therefore you save money by buying from us.

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**Man., Winnipeg**—Contract to Southerland Construction Co. for King Edward school, No. 2.

**Minn., Grand Rapids**—Contract for plumbing, heating and construction of boiler house let as follows for school; heating, F. S. Spencer, Minneapolis, for \$5,884; E. R. Browne, Grand Rapids, plumbing, \$3,010; boiler house, S. Lofberg, Grand Rapids, for \$2,317.

**Minn., Moorhead**—Contract awarded to Bowers Bros., Fargo, for construction of home for Benedictine sisters, this city, at \$5,333; other bids: W. H. Merritt, \$5,640; A. J. Fridlund, \$5,782; Tom Powers, \$5,482; N. N. Malvey, \$5,614; E. Anderson, \$5,880; contract for plumbing, heating, roofing and painting to be let later; Architect O'Shea, Fargo, prepared plans.

**Minn., Monticello**—Contract let to Fred Brown for school in Bryant district.

**Minn., Pine City**—Contract for new school house to be let April 11, Saturday, Kelly & Williams, architects, Duluth.

**N. D., Daglum**—Contract awarded to C. L. Hager, Dickinson, N. D., for school, district No. 15, at \$1,060.

**N. D., Gladstone**—Contract awarded to James Connors, Gladstone for excavating and walling in basement of school, district No. 2; 2-story, frame; work starts, main building, in a month; G. S. Coyne, clerk.

**Wis., Superior**—Contract awarded to Emil Sedlachek for new building of Normal, superstructure; cost about \$150,000.

## MILLS AND FACTORIES

*Notes arranged alphabetically by States.*

**Wis., Mondovi**—Fred Bertschy will build a canning factory here.

**Wis., Oconto**—Work will soon begin on new pickle factory.

**Wis., Rockland**—John Roberts will soon break ground for creamery at Midway.

**Minn., Hastings**—Fire destroyed Southwestern section of Brandt Sprayer Co. plant; loss \$10,000; fully insured.

**Wis., W. Cedar Grove**—Farmers' Dairy Products Co., incorporated; will operate a cheese factory here.

**Wis., Delevan**—Delevan Condensed Milk Co. will build an addition to office and canning factory.

**Wis., Bloomer**—Proposition discussed for a pickling station here.

**Minn., Pine Island**—Plans on foot again for condensed milk factory.

**Wis., Arena**—Farmers will build cheese factory here.

### BIDS WANTED.

**Minn., Knapp**—Bids received by G. C. Celine, Cakato, Minn., until 2 p. m., April 25, for creamery building at Knapp; R. W. Swenson, architect, Dassel; check 2½ per cent; officially advertised in this issue Improvement Bulletin.

### CONTRACTS AWARDED.

**Wis., Caledonia**—Contract awarded to W. C. Rueckert & Herman Kutzke, for \$2,000 cheese factory here; concrete blocks, 2-story.

**Wis., Green Bay**—Contract awarded to Geo. Zukowsky for a factory for Frank Kress, collar maker; cost \$7,500; 65x108, 2-story, brick, stone trim, concrete floors and wood.

## ELECTRICAL

*Items marked with asterisks not run in Daily Sheets.*

*Notes arranged alphabetically by States.*

**Iowa, Buck Grove**—Quarthamer & Schoening, owners of franchise, started excavation electric light plant; hollow brick.

**Iowa, Carlisle**—The First M. E. church was damaged when light plant exploded.

**Iowa, Clarinda**—Lee Electric Co. sold its business to a Wall st. firm the company was furnishing electricity to eight other towns.

**Iowa, Le Mars**—The First M. E. church association will build a new church, plans by architects, Fulton & Butler, Allentown, Pa.; light colored brick, terra cotta trim, seat 400, Greek architecture; cost \$25,000.

**Iowa, Nevada**—Iowa Railway & Light Co., Cedar Rapids, will install line between here and Maxwell; J. C. Young, Cedar Rapids, representative.

**\*Minn., Madelia**—Business men organized a company, C. S. Christiansen, chairman, for white way lighting system.

**Minn., Minneapolis**—It is reported a syndicate of California electric railway men will buy the Twin City & Lake Superior Railway Co. Arrow Line, incorporated in Feb. 1907, to build Duluth to Minneapolis, part of the road graded.

**Minn., St. Cloud**—Bids for electric pump received as follows: Allis Chambers Co., \$1,937; General Electric Co., Minneapolis, and Worthington Electric Co., \$1,697; Hayton Pump Co., \$1,771; American Well Works, \$1,842.

**Mont., Helena**—J. G. Shaw of Luther, W. H. Reber, Absarokee, organized a company to build a line, Red Lodge to Columbus, stations and machine shops will be built; branch lines, Red Lodge Creek, Rosebun and Stillwater creeks; corporation provides for telephone and telegraph lines; will connect with street railways to be built at Absarokee, Red Lodge and Columbus, work to begin this year.

**Mont., Laurel**—Council considering street lighting system.

**\*Mont., Melstone**—J. P. Barclay, of firm, C. H. Green, consulting engineer, Spokane, is making surveys for the electric light system, blue prints ready in 10 days.

**Neb., Atkinson**—Within two months, J. Skredea & Sons, of this place will erect one mile of distribution line and buy one carload poles, cross arms and wire.

**S. D., Coleman**—Flandreau Light & Power Co., granted franchise for light and power for this place.

**\*S. D., Gregory**—A telephone line is being built to Rhoades township with connections here.

**S. D., Hayes**—Mutual Farmers' Telephone Co., incorporated, 45 miles will be built.

**S. D., Highmore**—Douglass Valley Telephone Co., capital \$4,500 incorporated by Phillip Burheim and others.

**S. D., Wentworth**—Fire destroyed the Presbyterian church here.

### BIDS WANTED.

**\*Neb., Mead**—Bids received April 17, by Mayor Fitts, for electric light plant; cost \$13,000; Bruce & Standevin, engineers, 420 Bee block, Omaha.

**S. D., Clear Lake**—Bids received until April 18, noon, for erection of a church for Christian Reform congregation, Havana township, on site of church recently burned; plans at home of John Top, or home of Garret Lantings, Garret, T. Kroney, president, Bemis, S. D.

**\*S. D., Elk Point**—Bids received by A. Smythe, city auditor until 2:30 p. m., April 30, for an electric lighting system; check for 5 per cent. Officially advertised in this issue of the Improvement Bulletin.

### CONTRACTS AWARDED.

**Iowa, Red Oak**—Poling Electric Co., Ottumwa, received contract for electrolier system at \$3,556.

**Minn., Alexandria**—Western Electric Co., Minneapolis, has contract to build white way.

**Minn., Luverne**—Contract for cluster lights to Northern Construction Co., Minneapolis.

**Wis., Kimberly**—The A. A. Fraser Lumber & Manufacturing Co. were awarded contract for erection of Holy Name church, work to start at once, 52x120, stone foundation, frame, rough cast finish; cost \$10,000; contract price \$7,500.

## CHURCHES

*Notes arranged alphabetically by States.*

*Items marked with asterisks not run in Daily Sheets.*

**Iowa, Monticello**—Harry E. Netcott, architect, Independence, Iowa, has prepared plans for a church, brick, 120x44; cost \$36,000; Rev. Father Houch, pastor; steel trusses and beams, cast columns, reinforced concrete, fireproofing, lime cut stone, common, pressed and hollow brick, steam heat, electric lights, cornice, tile roof, hard plaster, plate, prism and art glass, oak floors, finish; bids taken by owner in 30 days.

**Iowa, Sigourney**—D. T. Seger, architect, Sigourney, Iowa, prepared plans for remodeling Christian church, (frame) Indianapolis, Iowa; florentine glass, hot air furnace, seats; cost \$3,500; address C. E. Brower, Indianapolis, Iowa.

**\*Minn., Bemidji**—German Lutherans will build new church.

**Mont., Helena**—Right Rev. John P. Carrall, bishop of the diocese of Helena, took bids to April 6, for the interior construction work of the St. Helena Cathedral; architect A. O. Von Herbulis, central heating plant, separate bids on vaulting, lighting, plastering and flooring.

**Mont., Roberts**—Committee in charge of Catholic church to be built: Joseph Bertrand, Michael Hogan, James Monahan, Alex McIntosh and John Monahan.

**N. D., Cottonwood**—Members Lutheran Free church will build modern, 28x40, work to start about June 1; O. P. Bilquist and G. Digerness, committee.

**\*Wis., Appleton**—Moses Montifore congregation will erect a synagogue; A. L. Jacobson, president.

### BIDS WANTED.

**\*Minn., Dawson**—Bids received by Chas. O. Hill, chairman





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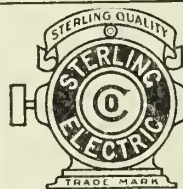
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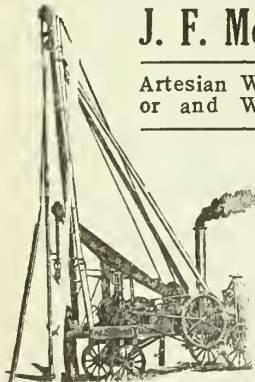
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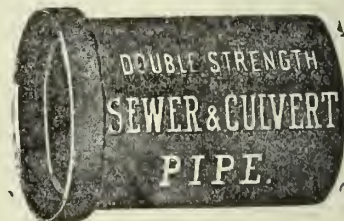


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building committee, until 7 p. m., May 6, for a church building; check for \$500. Officially advertised in this issue of the Improvement Bulletin.

**\*Minn., Fairmont**—Plans out for figures on Church of Christ congregation church. Kirby T. Snyder, architect, Plymouth building, Minneapolis. Plans call for building 52x75, 2-story and basement, Bedford stone, press brick exterior, oak interior, structural and ornamental iron, ornamental plaster, art glass, pews; owners will build, day labor. Walter R. Burton, chairman building committee.

**\*Minn., Princeton**—Bids received until April 20, for construction of 208 feet concrete foundation wall, West Branch church, also cement floor, 24x36, plans, O. H. Uglem, route 5, Princeton.

**S. D., Beresford**—Plans by architect, John C. Chapman, Sioux Falls, S. D., for church for M. E. society; brick, 58x57; cost \$17,000; lime cut stone, pressed and hollow brick, furnace heat, electric lights, tin roof, patent plaster, metal lath, corner bead, Berry Bros. varnish, ribbed and art glass, yellow pine finish; bids taken by pastor, First M. E. church, until April 17.

**S. D., Crooks**—Plans for church, completed; 40x70, with extension, cost about \$15,000; bids received until 4 p. m., April 17; Jos. Benson, secretary, Crooks; plans on file with secretary; Jos. Schwartz, architect, Sioux Falls, S. D.

**Wis., Kaukauna**—Bids received until 9:30 a. m., April 14, for construction of Holy Cross church; plans with Rev. Father Van Susteren, Green Bay, Wis.; John Kilsdonk, secretary.

#### CONTRACTS AWARDED.

**Minn., Brooten**—Contract awarded to Owen Stokes of Glenwood, for decorating North Fork Lutheran church, \$13,000.

**Minn., Faribault**—Contract awarded to Hoffman & Mosse, architects, Rochester, Minn., for plans M. E. church here; cost about \$40,000; modern heating and ventilating system, seat 800.

**Minn., Gentilly**—Contract awarded to Edward Jackson, of Bemidji, for church, at \$25,000; Holstead & Sullivan, architects.

**N. D., Dickley**—Contract let to Contractor McPherson, of Oakes, for Catholic church at Berlin, to be completed by July 1; cost about \$4,000.

**N. D., Norman**—Contract awarded to Ritterbush & Son, of Oakes, N. D., for Catholic church, at \$2,341; Geo. Issenhuth, architect, Huron, S. D.

**\*S. D., Lennox**—Contract let to Max Lamp and G. W. Coldwell of Spencer for large Catholic church; also for Lutheran church near Canova.

## BUSINESS BUILDINGS

*Notes arranged alphabetically by States.*

*Items marked with asterisks not run in Daily Sheets.*

**Iowa, Grinnell**—Plans for Merchants' National Bank building in hands of local contractors; Oskaloosa brick interior walls, "Ornamental" pressed brick, exterior; ornamental terra cotta and iron, marble floor or concrete covered with cork mat, leaded art glass, galleries; cost \$60,000.

**Iowa, Sigourney**—Architect D. T. Seger of Sigourney, is preparing plans for remodeling Keokuk County Bank, in Sigourney; plate glass, prism glass, two vault doors, electric fixtures; address F. D. Snakenburg, cashier.

**Minn., Currie**—Architect Gerlach, Mankato, Minn., preparing plans for bank and store building here, for Farmers' State Bank; store building and auditorium, 50x70, for P. J. Lella.

**Minn., Darwin**—Work started on new bank, modern.

**Minn., Faribault**—Jas. E. O'Neil, manager of contracting firm, Wm. O'Neil & Son, is excavating for business block.

**Minn., Hutchinson**—Work will start on Dobratz's store this week.

**\*Minn., Isanti**—Kirby T. Snyder, architect, Plymouth building, Minneapolis, is preparing plans, ready about May 1, for bank at Isanti, for Security National Bank, John Clover, cashier; 2-story, brick, tile floor, modern, marble wainscot, 42-foot front by 37, pressed brick, St. Cloud polished granite, Bedford stone, quarter-sawn oak, plate and prism glass, vault doors and equipment, beamed ceiling.

**Minn., Lake Benton**—A 2-story brick, block will be built by First National Bank; brick store by Mrs. R. Kirkeeng; M. I. Kirkeeng plans brick store and Farmers' State Bank modern 2-story bank building.

**Minn., Lake City**—John Roschen, Kemp & Roschen, purchased Abraham building, will remodel, modern.

**Minn., LeRoy**—First State Bank plans modern block.

**\*Minn., Lester Prairie**—Kirby T. Snyder, architect Plymouth building, Minneapolis, has plans out for figures for

store and office building, Lester Prairie, for Wise & Kuhlman; press brick, Kasota stone, structural and ornamental iron, fireproof, windows, metal lath, prism and plate glass, hardwood floors, composition roof, \$20,000.

**Wis., Hillsdale**—Fire destroyed large store of Mr. Lemler.

**Wis., Madison**—Permit issued to A. O. Parmack to build a 1-story, brick store; cost \$1,700; to Doyon & Payne, for a lumber shed; cost \$1,500.

**Wis., Monroe**—Samuel Isley will erect a 2-story brick building.

**Wis., Racine**—Birdsall—Griffith Construction Co. have contract for cement floors for the L. P. C. Auto Co., at Racine Junction.

#### BIDS WANTED.

**Minn., Pipestone**—Bids received by Tad Bailey, county auditor, until 3 p. m., April 28, for decorating county court house; plans by Jos. D. Livermore, architect, Sioux Falls, S. D.; check \$150; officially advertised this issue Improvement Bulletin.

**Mont., Great Falls**—Bids received until 11 a. m., April 11, for a 2-story frame warehouse for D. R. Edwards Co., check 5 per cent, architect, Geo. H. Shanley, 512 First National Bank building; plans at office of architect.

**N. D., Grand Forks**—Bids received by board directors, Scandinavian American Bank and Northwestern Trust Co., until noon, April 29, for bank, store and office building; check 5 per cent; officially advertised this issue Improvement Bulletin.

**S. D., Aberdeen**—Bids received by F. W. Raymond, auditor, until 10 a. m., April 20, for wood furniture; until April 27 for electric light fixtures, until May 11, for steel furniture; Geo. F. Fossum, architect, Aberdeen; check 5 per cent; officially advertised this issue Improvement Bulletin.

#### CONTRACTS AWARDED.

**Minn., Detroit**—Contract for remodeling Lyonsmith building let to Ed. C. Dahl and Peter Bjerke, \$5,000.

**Minn., Ellendale**—Contract awarded to Nelson & Thompson, of Albert Lea, Minn., for a large modern brick store, 25x100, for A. M. Lerberg, city.

**Minn., Fairmont**—Contractor Beckwell, Mankato, has contract for Wold Habel building.

**Neb., Grand Rapids**—Contract for Roth building let to Contractor Sothman, at \$12,753; brick to Mr. Fauble.

## MISCELLANEOUS

*Notes arranged alphabetically by States.*

*Items marked with asterisks not run in Daily Sheets.*

**\*Iowa, Clinton**—Bids received by Chas. P. Chase, consulting engineer, Clinton, until 2 p. m., May 4, for dredging, sand filling and rip-rapping; check for \$500. Officially advertised in this issue of the Improvement Bulletin.

**\*Mont., Dillon**—Company organized with \$16,000 capital to bore for oil, much excitement as to probabilities of oil in the district; shale has assayed 40 gal. to the ton, and a 600 foot well will be bored.

**\*Mont., Red Lodge**—Improvements in way of new buildings to the value of about \$50,000 to be made at the last mine of the Northwestern Improvement Co., four buildings being under contemplation; Wm. Haggerty, superintendent.

**\*S. D., Centerville**—A. E. Lee will build two concrete silos 70 feet high, each with capacity of 350 tons.

**\*Wis., Marshfield**—T. D. Hefke will enlarge his greenhouse by another structure, 36x70; cost \$1,000.

## ELEVATORS

*Notes arranged alphabetically by States.*

**Iowa, Clarinda**—Petition has been drawn by Stanley Van Sant for another large ditch, virtually extension of ditch just finished on West Nodaway river.

**Iowa, Marble Rock**—Farmers Elevator Co. incorporated, capital \$3,000; incorporators: F. W. Ganger, Mat. Standt, A. Jandl, Dan. Barth and others.

**Iowa, Marshalltown**—N. S. Beale, Tama, will build elevator.

**Minn., Minneapolis**—\$350,000 malt house and elevator of Wm. Rohr & Sons Co., Manitowoc, Wis., will be at Grand st. and 31st av. NE., near Gould elevator.

**Minn., Minneapolis**—Pillsbury Flour Mill Co. will erect a large storage elevator, 1,500,000-bushel; cost \$300,000.

**Minn., St. Cloud**—E. Dalrymple & Co., of Chicago, have plans for a string of four potato warehouses, with St. Cloud as central buying point this spring.



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## RESIDENCES

*Notes arranged alphabetically by States.*

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**Iowa, Charles City**—J. Hughes Co., architects, Charles City, Iowa, prepared plans for a modern frame residence for Frank Majones, 2-story, 33x45, cost \$4,500; steam heat, driven well, gas engine pump, wood roof, plaster board, any approved brand of paint, maple floors, yellow pine finish, bids taken by architect, until April 13.

**Iowa**—Following will build houses: Davenport—Permit issued to Mrs. Hoersch, \$5,500, 2-story, stucco. Marshalltown—Jim Roeder, modern.

**Iowa**—Following residences will be erected: Council Bluffs—Mrs. Lulu Leonard, 1-story frame, cost \$1,200; Henry Peterson, bungalow, cost \$2,500; Harry Jacobson, 1-story frame, \$1,200. Cedar Falls—C. M. Wyth will build 2 modern flats.

**Iowa**—Following will build residences: Glidden—Mrs. Mary Wiley, J. A. Snyder, C. E. Grimes, Henry Snyder, E. Forbes; S. C. Johnston contemplates building. Decorah—J. F. Rosendahl will build. New Hampton—The Felder Building association will build several houses, modern. Marengo—Aaron Wyant will build. White Pigeon, (not P. O.)—Maquoketo—D. F. Scheib will build. Renwick—G. S. Peteds will build, modern. Dike—C. H. Meyers will build; also Peter H. Jensen of Fredsville and Mrs. Ed. Madison. Davenport—Permit issued to Louis A. Doty, 1-story frame, cost \$2,000. Marshalltown—W. S. Haynes will build, modern, \$2,500.

**Iowa**—Following will build residences: William—E. I. Johnson, modern, bungalow, Ross Hanson, contract for foundation and cement work, J. G. Ammiller, general contract. Williams—R. T. Halsno, modern. Carnes—C. L. Weber. Le Mars; modern. Alton—Wm. Reid. Little Rock—L. W. Baumann, cottage, cement block. Onawa—Charley Hoar, modern, \$4,000. Belle Plain—H. H. Boyson.

**Iowa**—Following will build: Des Moines—C. W. DeJarnette, architect, Des Moines, Iowa, 523 Equitable building, prepared plans for a frame residence, 2-story, 30x34; cost \$60,000, for R. A. Curtis, at 43d and Harwood Drive; tile fireproofing, common and fire brick, hot water heat, gas, electric lights, wood roof, common plaster, metal lath, corner bead, tile floors and hearth, birch and oak floors, oak and bass finish; bids taken by architect until April 4.

\***Minn., Lester Prairie**—Kirby T. Snyder, architect, Plymouth building, Minneapolis, has plans completed for 2-story and basement residence, H. Engler, Lester Prairie; 38x54, press brick foundation, weather boarding and shingles, oak trim, hardwood floors, oak mantel, polished, plate and bevel plate glass, two baths, tile floors, hot water heat, \$7,000; owner taking figures.

\***Minnesota**—Following will build residences: Alexandria—C. A. Johnson, modern, plans by A. C. Hanson. Ortonville—Alvah Matthews. Ortonville—Olat Olson, modern. Park Rapids—E. E. Burch. Zumbrota—Mason Smith, modern. Waconia—Edward Wessale, modern. Mahanomen—B. J. Reck. Evan—Bids received until 11 a. m., April 16, for frame parsonage for St. Mathew's Danish Evangelical Lutheran congregation, Christ Jensen, secretary. New London—Fire destroyed residence and buildings of Geo. Weidner, loss \$30,000, insurance \$10,000.

**Minnesota**—Following will build: Long Prairie—Theo. Hansmann, modern, cement block. Parkers Prairie—Contract let to Emil Eichler, Ed. Kienitz, builder, 2-story cement. North Richland—Charles Keller, modern. Baudette—Leon White, 2 modern, Lintah—Frank Mack has contract for several residences. Fairmont—Herman Milbrandt has contract for houses of F. C. Krumholz, A. W. Gamble and L. J. Frase also, Gerald Goetz; contract let to Larson & Anderson, by Henry Goergen, modern. Guthrie—P. A. Swanson, modern. Biwabik—Andrew Prestrud, modern. Adams—Hubbard Carey modern. Fairmont—H. F. Rockwell, 3 modern.

**Minnesota**—Following will build houses: Eveleth—Chas. Rutty, city, has contract, 3 cottages for Frank Rabinowitz, Jacob Stein and Sam Siegel. Argyle—O. L. Swanberg. Montevideo—Wm. Olson, modern. Grove City—Andrew E. Hanson, Minneapolis, will build here. Grove City—Lewis Ferwald. Springfield—Wm. Schaefer. Wabasha—W. H. Anderson. Willmar—J. A. Johnson.

**Minnesota**—Following will build houses. Eveleth—George Ocole will build. Tower—J. A. Talle of Biwabik will build here. Balaton—H. A. Tate will build. St. Cloud—Paul Raasch will build a cottage. Gary—M. F. Hanson and P. J. Groth will build, modern. St. Cloud—Permit issued to Etta A. Grunwald for house, contract to C. H. Grunewald, cost \$1,500.

**Minnesota**—Following residences will be built: Buffalo—

Swan Bratt has contract for a 2-story house for Alta Stanton. St. Cloud—S. Storm will build. Gibbon—Carl Pagel, John L. Mueller, Ben Leske will build, modern. Bemidji—Wm. H. Renico will build at Bass Lake. Dunnell—Bids received until April 24, 3 p. m., for a parsonage for the Swedish Lutheran congregation, 2-story frame, plans with Swen Person, Dunnell. Detroit—Contract awarded to Detroit Building & Manufacturing Co., for \$5,000 M. E. parsonage. Rochester—Hoffman & Misse, architects, Rochester, awarded contract to draw plans for houses for Dr. A. H. Sanford, Mrs. W. H. Knapp and R. J. Griffin.

**Montana**—Following will build: Helena—A 4-room, 4-story apartment house will be built by a local company, 88x87, fireproof; plans by Link & Haire, architects, Butte, Mont., cost \$90,000; concrete foundation, pressed and common brick, granite stone, composition roof, terra cotta cornice, stucco, plaster, steam heat, maple floors, pine and birch finish, boilers, 28 bath rooms, cementing, decorating, dumb waiter, passenger elevator, electric bells and lights, fire escapes, fireproof, hollow tile, iron beams, marble, wire lath, plumbing, refrigerator, screens, skylights, telephone system, terra cotta, ventilators, contract to be let about April 15.

**Montana**—Following will build residence: Great Falls—Permits issued to S. C. Swartz, 2-story, frame; cost \$3,500; H. J. Skinner, alterations, \$1,000; James Pearson, 2-story frame, cost \$5,000.

**Nebraska**—Following will build residences. Brainerd—Jos. Resek will build. Cordovia—H. Henrickson will build. Fremont—Dr. J. K. Sewell will build, 7-story, modern. Fremont—Al. West will build. Fremont—Mrs. L. Womack, 2-story, modern. Blair—Charles Sierk, modern bungalow. Fremont—Martin Nelson, modern, 2-story. Sargent—Evan Miller awarded contract to Chas. Herbert for 8-room modern house. University Place—Mrs. M. J. Harrell will build. University Place—Judge J. C. Moore will build, modern. Tecumseh—W. J. Lynch will build. Seward—Herman Bernecker will build. Waverly—John Munn will build, modern. Superior—Amberson Bros. will build a \$12,000 house for Geo. Powell at Hardy. Sidney—Contract awarded to C. P. Grant for Catholic parish house, \$4,400.

**Nebraska**—Following will build houses. Alda—Cal Schriener Wayne—C. A. Berry, modern. Tecumseh—W. J. Lynch, modern. Springfield—N. J. Christianson, modern. Stanton—Dr. Peters, modern. O'Neil—O. O. Snyder. Neligh—Ed. Young, contract to Lytle & Thornton, 4-room, modern cottage. Kearney—W. J. Lunger, modern. Hastings—Jos. Davis modern. Hastings—Plans by C. W. Way & Co., brick cottage for Blinn Sill. Kearney—L. J. Knott, modern. Franklin—John Esheknan. Emerson—M. McEntaffer and Jno. Schindler, 6-room modern cottage for Louis Greenfield. Ewing—Jno. Klein.

**Nebraska**—Following will build dwellings: Beatrice—Trautwein Bros., city, have contract for Dr. Webb's house. Brainerd—Joseph Resek will build. Braneston—John Wolken will build, modern. Chambers—Fred Ermer and W. Woodward have contract for Jas. Andrew's house. Cordovia—H. Henricksen will build. Crab Orchard—L. R. Waldron will build. Enstis—Bert Schroeder is building. Fremont—L. L. Rossler will build. Fremont—Dr. J. K. Sewell will build a 7-story, modern.

**N. D., Kintyre**—Banker Simon has let contract for a \$4,000 residence, modern.

**Sask., Humboldt**—The Eastern & Prairie Lands Co., Ltd., are planning erection of 11 houses here.

**Sask., Moose Jaw**—W. T. Black will erect a 3-story apartment block; T. C. Carmichael, architect; J. T. Jerram, contractor.

**South Dakota**—Following will build houses. Aberdeen—S. Locken, modern, \$4,000. Aberdeen—J. B. Romans for Mike Swengler, \$7,500.

**South Dakota**—Following will build: Salem—Will Krantz, 2-story, modern, electric lights. Salem—Robt. Blankartz, modern. Volga—A. P. Thompson, modern.

**Wis., Green Bay**—Bids received until April 16, 3 p. m., for a new parsonage for St. Mary's church of Glenmore, Wis.; plans by Leo. J. Yee, Denmark, Wis.; frame building, 34x36. For plans address Rev. Barnard J. H. Jacobs, De Pere, Wis., Route 3. Check for \$75.

**Wisconsin**—Following will build houses: Baldwin—Ben Kotts will build, modern. Neilsville—Len Shaw will build, modern, Will Kelch, contractor. Shiocton—Nick Freeman has contract for house of F. O. Towns. Faribault—Mrs. A. Buckman, will build here. Germania—Roy Griggs is building house for Herman Werth. Stoughton—Albert Root will build a modern bungalow. Racine—Andrew Hanson, contractor has contract for modern double flat. Richland Center—Nelson Wilson will build, modern. Black River Falls—J. H. Levis intends to build, modern.



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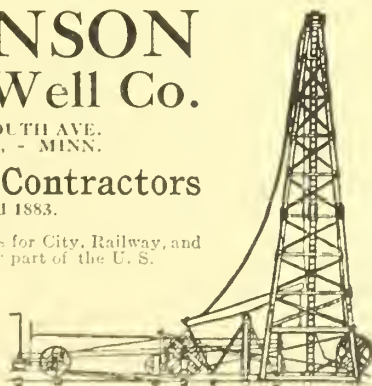
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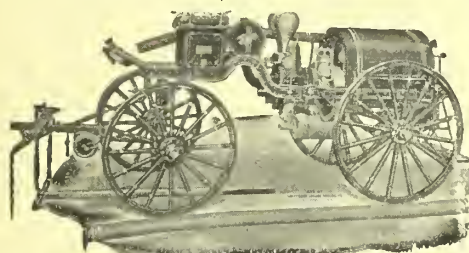
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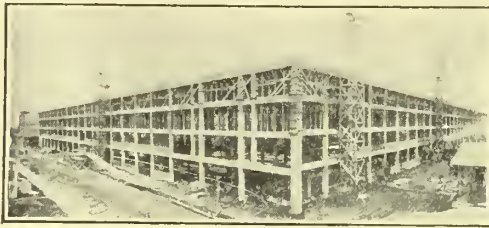
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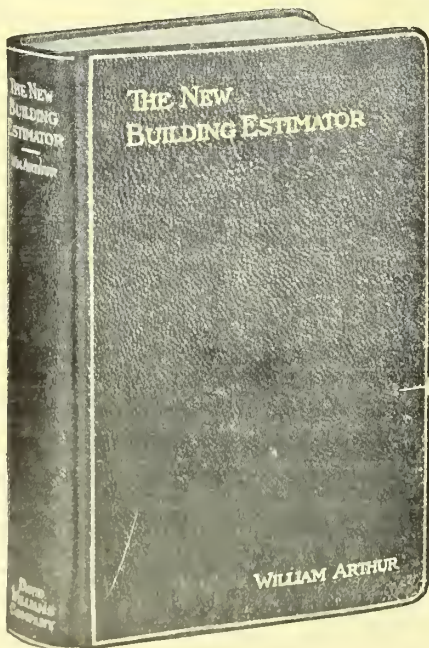
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# The Improvement Bulletin

A Weekly Journal of Construction, Engineering and Architectural News Founded by Harold C. Chapin

Volume XLVII.

Minneapolis, Minn., April 18, 1914.

Number 20

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K. F. Lott & Co..Mpls. and St. Paul, Minn.

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Boukind-Carlson Brick Co.Crookston, Minn.  
Chaska Brick & Tile Co..St. Paul, Minn.  
Crookston Brk. & Tile Co..Crookston, Minn.  
Dickinson Brick Co.....Dickinson, N. D.  
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Shakopee Cement Lime Co..St. Paul, Minn.  
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Crown Iron Works Co.....Minneapolis, Minn.  
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H. W. Johns-Manville Co.....  
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Landers-Morrison-Christensen Co.....  
..Minneapolis, Minn.  
Osgood & Blodgett Mfg. Co..St. Paul, Minn.  
Shakopee Cement Lime Co..St. Paul, Minn.  
The Northwestern Lime Co..St. Paul, Minn.  
Standard Salt & Cement Co..Duluth, Minn.

### BUILDERS' SPECIALTIES.

Dunlop, Moore Co.....Duluth, Minn.  
Palme & Nixon Co.....Duluth, Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
Thomson-Williams Co.....Duluth, Minn.  
Waterloo Register Co.....Waterloo, Ia.

### CALKING PASTE.

Minnesota Weatherproof Calking & Glaz-  
ing Co.....Minneapolis, Minn.

## The Buyer's Guide and Classified Directory of -:- Advertisers -:-

### CEMENT.

Atlas Portland Cement Co., New York,  
N. Y., Chicago, Ill., and Minneapolis, Minn.  
Carney's Cement Works....Mankato, Minn.  
Fowler & Pay....Mpls. and Mankato, Minn.  
Landers-Morrison-Christensen Co.....  
..Minneapolis, Minn.  
N. W. Lime Co..Mpls. and St. Paul, Minn.  
Shakopee Cement Lime Co..St. Paul, Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
Speakes Lime & Cement Co..Superior, Wis.  
St. Paul Lime & Cement Co..St. Paul, Minn.

### CELLS, STEEL.

Avery Steel & Iron Co..Minneapolis, Minn.  
Crown Iron Works Co.....Minneapolis  
Diebold Safe & Lock Co....St. Paul, Minn.  
Minneapolis Steel & Mach. Co..Mpls., Minn.

### CEILINGS, STEEL.

Canton Steel Ceiling Co..Minneapolis, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### CHAIRS, OPERA.

Northern Theatre Supply Co..Mpls., Minn.

### COAL CHUTES.

Crown Iron Works Co.....Minneapolis  
Enterprise Iron Works....Albert Lea, Minn.  
Gardner Hardware Co.....Minneapolis, Minn.  
Majestic Furnace & Fdy. Co..Mpls., Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
Waterloo Register Co.....Waterloo, Ia.

### COLD STORAGE PLANTS.

Chas. A. Berger.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.

### COLUMN CLAMPS.

O. F. Symons & Co.....Minneapolis, Minn.

### CONCRETE CONSTRUCTION.

Corrugated Bar Co.....St. Paul, Minn.  
C. A. P. Turner.....Minneapolis, Minn.

### CONCRETE MACHINERY.

Atlas Engineering Co.....Milwaukee, Wis.  
Nels Erickson.....Minneapolis, Minn.  
Eureka Machine Co.....Lansing, Mich.  
G. E. Ingersoll & Co.....St. Paul, Minn.  
Koehring Machine Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
Standard Salt & Cement Co..Duluth, Minn.  
Jaeger Machine Co.....Columbus, Ohio  
Raymer Hardware Co.....St. Paul, Minn.  
Lansing Co.....Lansing, Mich.  
Northwestern Steel & Iron Wks.....  
..Eau Claire, Wis.  
Waterloo Cement Machinery Corp.....  
..Waterloo, Iowa

### CONCRETE REINFORCING BARS.

Inland Steel Co.....St. Paul, Minn.  
Corrugated Bar Co.....St. Paul, Minn.  
N. W. Concrete Steel Co.Minneapolis, Minn.  
Minneapolis Steel & Mach. Co..Mpls., Minn.

### CORNICES.

Griffin & Boehme.....St. Paul, Minn.  
F. V. Haverland.....Minneapolis, Minn.  
Minnesota Roofing & Cornice Works.....  
..St. Paul, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.  
St. Paul Roofing, Cornice & Ornament Co.  
.....St. Paul, Minn.

### CORRUGATED IRON, ETC.

Corrugated Bar Co.....St. Paul, Minn.

### CONCRETE REINFORCING.

Inland Steel Co.....St. Paul, Minn.  
N. W. Concrete Steel Co.Minneapolis, Minn.

### CONTRACTORS.

N. B. Cagley & Co.....Minneapolis, Minn.

### CONTRACTORS' SUPPLIES AND

### MACHINERY.

Decker Hardware Co.....St. Paul, Minn.  
O. F. Symons & Co.....Minneapolis, Minn.

### CULVERTS.

Victor H. Leeby..... Fargo, N. D.  
Biesanz Stone Co.....Winona, Minn.  
Klauer Mfg. Co.....Dubuque, Ia.  
Minneapolis Steel & Mach. Co..Mpls., Minn.

### CRUSHED STONE.

Fowler & Pay.....Mankato, Minn.  
Kettle River Co.....Minneapolis, Minn.  
Klauer Mfg. Co.....Dubuque, Ia.  
Mantorville Stone Co.....Mantorville, Minn.  
New Ulm Stone Co.....New Ulm, Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
Widell Co.....Mankato, Minn.

### CREOSOTING.

Republic Creosoting Co., A. E. Larkin  
.....Minneapolis, Minn.

### DEADENING MATERIAL.

H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co.....St. Paul, Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
Union Fibre Co.....Winona, Minn.

### DECORATIONS.

Odin J. Oyen.....La Crosse, Wis.

### DITCHING MACHINES.

Dix Machine Co.....Stillwater, Minn.

### ELECTRICAL ENGINEERING.

Minneapolis Electric Equipment Co.....  
..Minneapolis, Minn.  
Northern Electrical Co..Minneapolis, Minn.

## RATES

For three lines in directory, giving name, address and goods handled, \$25 for 1 year, 52 times.

### SAMPLE AD

Great Northern Brick Company  
Pressed Brick and Drain Tile  
Minneapolis, - - - Minn.

### ELECTRIC MOTORS AND SUPPLIES

H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
Minneapolis Electric Equipment Co.....  
..Minneapolis, Minn.  
Sterling Electric Co.....Minneapolis, Minn.

### ELECTRIC SPECIALTIES

Minneapolis Electric Equipment Co.....  
..Minneapolis, Minn.

### ELEVATORS AND ENCLOSURES.

Kimball Bros. Co.....Council Bluffs, Ia.  
Gust Lagerquist.....Minneapolis, Minn.  
Lee & Hoff Mfg. Co.....St. Paul, Minn.

### ELEVATOR CABS.

N. W. Fixture & Cabinet Co..Mpls., Minn.

### ENGINEERS.

Oscar Claussen Engineering Co.....  
..St. Paul, Minn.  
Charles L. Pillsbury.....Minneapolis, Minn.  
L. P. Wolf.....St. Paul, Minn.  
M. B. Store.....Minneapolis, Minn.  
W. P. Cowles.....Minneapolis, Minn.  
Power Engineering Co.....Minneapolis, Minn.

### FIRE ESCAPES.

Crown Iron Works Co.....Minneapolis  
Des Moines Structural Steel Works.....  
..Des Moines, Ia.  
Davenport Mach. & Fdy. Co..Davenport, Ia.  
Minneapolis Steel & Mach. Co..Mpls., Minn.

### FIREPROOF DOORS.

Thorp Fireproof Door Co..Minneapolis, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### FLUE LINING.

Northwestern Lime Co.....St. Paul, Minn.  
Standard Salt & Cement Co..Duluth, Minn.  
St. Paul Lime & Cement Co..St. Paul, Minn.

### FIRE PROTECTION APPARATUS.

Waterous Engine Works Co..St. Paul, Minn.  
H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.

### FIREPROOFING DOORS AND SHUTTERS.

Selden Roofing & Manufacturing Co.....  
..Minneapolis, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### FLOORING.

American Torgomont Flooring Co.....  
..Minneapolis and (Midway) St. Paul, Minn.  
Fama Stonewood Co.....St. Paul, Minn.  
H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co..Mpls. and St. Paul, Minn.  
Osgood & Blodgett Mfg. Co..St. Paul, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.  
I. Stephenson Co.....Wells, Mich.  
Thomson-Williams Co.....Duluth, Minn.

### FURRING.

Corrugated Bar Co.....St. Paul, Minn.

### GAS AND ELECTRICAL FIXTURES.

Herber Chandelier Co..Minneapolis, Minn.  
Mpls. Electric Equipment Co..Mpls., Minn.  
Minneapolis Gas Fixture Co..Mpls., Minn.  
Sterling Electric Co.....Minneapolis, Minn.

### GLASS.

American Luxfer Prism Co.....Chicago, Ill.  
Minnesota Art Glass Co.....St. Paul, Minn.  
Pittsburgh Plate Glass Co.....  
..Minneapolis and St. Paul, Minn.

### GRAVITY CARRIER.

Minnesota Manufacturers' Association....  
..North St. Paul, Minn.

### HARDWARE TRIMMINGS.

Decker Hardware Co.....St. Paul, Minn.  
Gardner Hardware Co.....Minneapolis, Minn.  
Raymer Hardware Co.....St. Paul, Minn.  
The Lane Co.....Minneapolis  
Waterous Engine Co.....St. Paul, Minn.  
Warner Hardware Co.....Minneapolis, Minn.

### HEAT REGULATORS.

Andrews Heating Co.....Minneapolis, Minn.

### HEATING AND VENTILATING.

Andrews Heating Co.....Minneapolis, Minn.  
Associate Mfrs. Supply Co.....  
..Minneapolis, Minn.  
Hasey Heating Co.....Minneapolis, Minn.  
H. Kelly & Co.....Minneapolis, Minn.  
National Mfg. & Supply Co..Mpls., Minn.  
Charles Wilkins & Co.....Minneapolis, Minn.

### HOSE.

Gardner Hardware Co.....Minneapolis, Minn.  
W. K. Morison & Co.....Minneapolis, Minn.

### HOTELS.

Radisson Hotel.....Minneapolis, Minn.



## NOTE

For street address of firms mentioned here, consult their advertisements, which can readily be found by referring to the alphabetical list on page three.

### INSULATING MATERIAL.

H. W. Johns-Manville Co. .... Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co. .... St. Paul, Minn.  
Union Fibre Co. .... Winona, Minn.

### INSURANCE.

Fidelity & Deposit Co. .... Minneapolis and St. Paul, Minn.  
Fred L. Gray Co. .... Minneapolis, Minn.  
Hood & Penney Co. .... Minneapolis, Minn.  
W. B. Joyce Co. .... Mpls. and St. Paul, Minn.  
Minneapolis Insurance Agency. .... Mpls., Minn.

### IRON AND STEEL WORK.

Avery Steel & Iron Co. .... Minneapolis, Minn.  
Clinton Bridge Works. .... Clinton, Ia.  
Crown Iron Works. .... Minneapolis, Minn.  
Davenport Machine & Foundry Co. .... Davenport, Ia.  
Des Moines Structural Steel Works. .... Des Moines, Ia.  
Inland Steel Co. .... St. Paul, Minn.  
Minneapolis Steel & Mach. Co. .... Mpls., Minn.  
N. W. Concrete Steel Co. .... Minneapolis, Minn.  
Oberg & Stainer. .... Minneapolis, Minn.  
Ranson, Birtram W. .... Minneapolis, Minn.  
St. Paul Foundry Co. .... St. Paul, Minn.  
E. J. Voggenreiter Co. .... Dubuque, Ia.  
Youngstown Iron & Steel Co. .... Minneapolis, Minn.

### JOIST HANGERS.

Avery Steel & Iron Co. .... Minneapolis, Minn.  
Crown Iron Works Co. .... Minneapolis  
Davenport Machine & Foundry Co. .... Davenport, Ia.  
Minneapolis Steel & Mach. Co. .... Mpls., Minn.  
Northwestern Concrete Steel Co. ....

### LIME.

Fowler & Pay. .... Mpls. and Mankato, Minn.  
Landers-Morrison-Christenson Co. .... Minneapolis, Minn.  
Gust Lillyblad. .... Red Wing, Minn.  
Shakopee Cement Lime Manufacturing Co. .... St. Paul, Minn.  
Speakes Lime & Cement Co. .... Superior, Wis.  
St. Paul Lime & Cement Co. .... St. Paul, Minn.  
Standard Salt & Cement Co. .... Duluth, Minn.  
The Northwestern Lime Co. .... St. Paul, Minn.

### MANTELS—GRATES.

Drake Marble & Tile Co. .... Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co. .... Duluth, Minn.  
N. W. Marble & Tile Co. .... Minneapolis, Minn.  
Twin City Tile & Marble Co. .... Mpls., Minn.

### MARBLE, TILING, MOSAIC.

Drake Marble & Tile Co. .... Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co. .... Duluth, Minn.  
N. W. Marble & Tile Co. .... Minneapolis, Minn.  
Thomson-Williams Co. .... Duluth, Minn.  
Twin City Tile & Marble Co. .... Mpls., Minn.  
Des Moines Marble & Mantel Co. .... Des Moines, Iowa

### METAL SHINGLES.

Milwaukee Corrugating Co. .... Milwaukee, Wis.

### METAL AND WIRE LATH.

Corrugated Bar Co. .... St. Paul, Minn.  
Ranson, Birtram W. .... Minneapolis, Minn.  
Johnson, Jackson & Corning Co. .... Minneapolis and St. Paul, Minn.  
Northwestern Lime Co. .... St. Paul, Minn.  
St. Paul Lime & Cement Co. .... St. Paul, Minn.  
Thomson-Williams Co. .... Duluth, Minn.

### MILLWORK.

Baxter Sash & Door Co. .... Duluth, Minn.  
Osgood-Blodgett Mfg. Co. .... St. Paul, Minn.

### MUNICIPAL CASTINGS.

Davenport Mach. & Fdy. Co. .... Davenport, Ia.

### OFFICE FURNITURE.

Farnham Printing & Sta. Co. .... Mpls., Minn.

### ORNAMENTAL IRON AND WIRE.

Builders Iron Works Co. .... Minneapolis and St. Paul, Minn.  
Crown Iron Works Co. .... Minneapolis  
Davenport Machine & Foundry Co. .... Davenport, Ia.  
Demueles Bros. .... Minneapolis, Minn.  
Flour City Ornamental Iron Works. .... Minneapolis, Minn.  
Midway Ornamental Iron Works. .... St. Paul, Minn.  
Minneapolis Steel & Mach. Co. .... Mpls., Minn.  
St. Paul Foundry Co. .... St. Paul, Minn.

### PAINTS, FILLERS, ETC.

Gardner Hardware Co. .... Minneapolis, Minn.  
Rickertson Mineral Paint Works. .... Milwaukee, Wis.

## The Buyer's Guide and Classified Directory of Advertisers

### PACKINGS AND HOSE.

H. W. Johns-Manville Co. .... Minneapolis, Minn., and Milwaukee, Wis.

### PAVEMENT.

Barber Asphalt Paving Co. .... Des Moines, Ia.  
Barrett Mfg. Co. .... New York, N. Y.

### PICTURE MACHINES.

Northern Theatre Supply Co. .... Mpls., Minn.

### PIPE AND BOILER COVERING.

H. W. Johns-Manville Co. .... Minneapolis, Minn., and Milwaukee, Wis.

### PIPE—CAST IRON.

American Cast Iron Pipe Co. .... Minneapolis

### PLASTER—WALL.

H. W. Johns-Manville Co. .... Minneapolis, Minn., and Milwaukee, Wis.  
Plymouth Gypsum Co. .... Fort Dodge, Ia.  
Shakopee Cement Lime Co. .... St. Paul, Minn.  
St. Paul Lime & Cement Co. .... St. Paul, Minn.  
Standard Salt & Cement Co. .... Duluth, Minn.

### PLASTERING—ORNAMENTAL.

Brioschi-Minuti Co. .... St. Paul, Minn.

### PLASTIC ORNAMENTS.

Brioschi-Minuti Co. .... St. Paul, Minn.  
K. F. Lott & Co. .... Mpls. and St. Paul, Minn.

### PLUMBING AND GAS FITTING

Charles Wilkins & Co. .... Minneapolis, Minn.

### PRINTING.

Farnham Printing Co. .... Minneapolis, Minn.

### PRISMS.

American Luxfer Prism Co. .... Chicago, Ill.  
Crown Iron Works Co. .... Minneapolis

### PLUMBING AND HEATING JOBBERS.

Associate Mfrs. Supply Co. .... Mpls., Minn.  
Central Supply Co. .... Minneapolis, Minn.  
National Mfg. & Supply Co. .... Mpls., Minn.

### RADIATORS.

Associate Mfrs. Supply Co. .... Mpls., Minn.  
Central Supply Co. .... Minneapolis, Minn.

### REVOLVING DOORS.

Van Kannel Revolving Door Co. .... St. Paul, Minn.

### ROOFING GRAVEL AND ASPHALT.

Griffin & Boehme. .... St. Paul, Minn.  
H. W. Johns-Manville Co. .... Minneapolis, Minn., and Milwaukee, Wis.  
Krieger-Jamar Co. .... Duluth, Minn.  
Minnesota Roofing & Cornice Works. .... St. Paul, Minn.  
Northwestern Lime Co. .... St. Paul, Minn.  
Scribner-Libby Co. .... St. Paul, Minn.  
Seibon Roofing & Manufacturing Co. .... Minneapolis, Minn.  
Thomson-Williams Co. .... Duluth, Minn.  
R. S. Wishart & Co. .... Minneapolis, Minn.

### ROOFING—METAL.

Badger Steel Roofing & Corrugating Co. .... La Crosse, Wis.  
Duluth Corrugating & Roofing Co. .... Duluth, Minn.  
Gardner Hardware Co. .... Minneapolis, Minn.  
La Crosse Steel Roofing & Corrugating Co. .... St. Paul, Minn.  
St. Paul Roofing, Cornice & Ornamental Co. .... St. Paul, Minn.  
R. S. Wishart & Co. .... Minneapolis, Minn.

### ROOFING MATERIAL.

Barrett Mfg. Co. .... New York, N. Y.  
Corrugated Bar Co. .... St. Paul, Minn.  
John Leslie Paper Co. .... Minneapolis, Minn.  
H. W. Johns-Manville Co. .... Minneapolis, Minn., and Milwaukee, Wis.  
McClellan Paper Co. .... Minneapolis, Minn.

### ROOFING AND SIDING—IRON AND STEEL.

Gardner Hardware Co. .... Minneapolis, Minn.  
Inland Steel Co. .... St. Paul, Minn.

### RUBBER SHINGLES.

Standard Salt & Cement Co. .... Duluth, Minn.

### RUST-RESISTING IRON SHEETS.

Inland Steel Co. .... St. Paul, Minn.

### SAFES.

Diebold Safe & Lock Co. .... St. Paul, Minn.  
Heilig & Elliott Co. .... Minneapolis, Minn.  
Herring-Hall-Marvin Safe Co.

### SAND AND GRAVEL.

Standard Salt & Cement Co. .... Duluth, Minn.

### SAW RIGS.

H. B. Jones, 349 Security Bank Building, Minneapolis, Minn.  
Raymer Hardware Co. .... St. Paul

### SEWER PIPE AND DRAIN TILE.

Ingalls Stone Co. .... Bedford, Ind.  
Iowa Sewer Pipe & Tile Co. .... Des Moines, Ia.  
Northwestern Lime Co. .... St. Paul, Minn.  
Plymouth Clay Products Co. .... Fort Dodge, Ia.  
Red Wing Sewer Pipe Co. .... Red Wing, Minn.  
Standard Salt & Cement Co. .... Duluth, Minn.

## REMEMBER

Announcements on this page are read by architects, contractors, and the building trade generally, all over the Northwest and produce excellent results.

### SHEETS—IRON AND STEEL.

Gardner Hardware Co. .... Minneapolis, Minn.  
Inland Steel Co. .... St. Paul, Minn.

### SIDEWALK LIGHTS.

American Luxfer Prism Co. .... Chicago, Ill.  
Crown Iron Works Co. .... Minneapolis  
K. F. Lott & Co. .... St. Paul and Minneapolis, Minn.

### SLATE BLACKBOARDS.

Twin City Tile & Marble Co. .... Minneapolis, Minn.

### SKYLIGHTS.

Krieger-Jamar Co. .... Duluth, Minn.  
St. Paul Roofing, Cornice & Ornament Co. .... St. Paul, Minn.  
R. S. Wishart & Co. .... Minneapolis, Minn.

### STEEL—BARS.

Inland Steel Co. .... St. Paul, Minn.  
Twin City Tile & Marble Co. .... Mpls., Minn.

### STONE.

Babcock & Wilcox. .... Kasota, Minn.  
Biesanz Stone Co. .... Winona, Minn.  
Also Building Material, Gravel for Roofing, Sand and Gravel.  
Breen Stone Co. .... Kasota, Minn.  
Edw. Edinger Co. .... Cedar Rapids, Ia.  
Ingalls Stone Co. .... Bedford, Ind.  
Kettle River Co. .... Minneapolis, Minn.  
Duluth Cut Stone Co. .... Duluth, Minn.  
Mantorville Stone Co. .... Mantorville, Minn.  
New Ulm Stone Co. .... New Ulm, Minn.  
Pioneer Granite Co. .... St. Cloud, Minn.  
Sauk Rapids Granite Co. .... Sauk Rapids, Minn.  
Wm. Penn Stone Co. .... Minneapolis, Minn.  
The Widell Co. .... Mankato, Minn.

STRUCTURAL SECTIONS AND SHEETS.  
Inland Steel Co. .... St. Paul, Minn.

### TANKS—STEEL.

American Bridge Co. .... Minneapolis, Minn.  
Central Supply Co. .... Minneapolis, Minn.  
Minneapolis Steel & Mach. Co. .... Mpls., Minn.

### TELESCOPIC HOISTS.

Avery Supply Co. .... Minneapolis, Minn.

### TERRA COTTA.

Johnson, Jackson & Corning. .... Minneapolis and St. Paul, Minn.  
K. F. Lott & Co. .... Minneapolis and St. Paul, Minn.  
Ranson, Birtram W. .... Minneapolis, Minn.

### VARNISHES.

Gardner Hardware Co. .... Minneapolis, Minn.  
North Star Varnish Co. .... Minneapolis, Minn.  
Twin City Varnish Co. .... St. Paul, Minn.

### VALVES.

Central Supply Co. .... Minneapolis, Minn.  
Crane Co. .... Minneapolis, Minn.  
Crane & Ordway Co. .... St. Paul, Minn.

### VAULTS.

Diebold Safe & Lock Co. .... St. Paul, Minn.  
Heilig & Elliott Co. .... Minneapolis, Minn.  
Herring-Hall-Marvin Safe Co.  
Also Vault Doors, Vault Furnishings and Filling Equipment.

### VENTILATING SYSTEMS.

Haekney Ventilating Co. .... Minneapolis, Minn.  
Charles Wilkins & Co. .... Minneapolis, Minn.

### WALL BEDS.

Northwestern Bedding Co. .... St. Paul, Minn.

### WATERPROOFING.

Gardner Hardware Co. .... Minneapolis, Minn.  
H. W. Johns-Manville Co. .... Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co. .... St. Paul, Minn.

### WATER TOWERS, STEEL.

Minneapolis Steel & Machinery Co. .... Minneapolis, Minn.

WINDOW SCREENS—METAL FRAME.  
O. F. Symons & Co. .... Minneapolis, Minn.

### WIRE AND IRON WORKS.

Builders Iron Works. .... Minneapolis and St. Paul, Minn.  
Demueles Bros. .... Minneapolis, Minn.  
Midway Ornamental Iron Works. .... St. Paul, Minn.

### WEATHER STRIPS.

Metal Weather Strip Co. .... St. Paul, Minn.  
O. F. Symons & Co. .... Minneapolis, Minn.

### WOODWORKING.

G. E. Ingersoll. .... St. Paul, Minn.



WRITE US  
FOR  
PRICES  
ON



## WHEELBARROWS

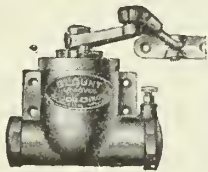
Quick Shipments      Prompt Deliveries  
Agents for Yale & Towne Hardware

**W. K. MORISON & CO.**

247-249 NICOLLET AVENUE

MINNEAPOLIS, MINN

(Cut on this line.)



**BLOUNT  
DOOR  
CHECKS**

**SEND THIS COUPON**  
with your order and we will allow you  
**A DISCOUNT OF 10% AND**  
**PREPAY FREIGHT 200 MILES**

- |  |        |
|--|--------|
| 1. For Screen Doors.....                               | \$3.25 |
| 2. For light inside Doors.....                         | 4.25   |
| 3. For heavy inside Doors not<br>over 2½x7 feet.....   | 5.00   |
| 4. For light outside or heavy<br>inside Doors .....    | 6.00   |
| 5. For heavy outside Doors not<br>over 3½x7½ feet..... | 8.00   |
| 6. For extra heavy Doors.....                          | 10.00  |

**GARDNER HARDWARE CO.**

304-306 HENNEPIN AVENUE

MINNEAPOLIS, MINN

(Cut on this line.)

## IDEAL FLOORING

Maple --- Birch --- Beech



**I. STEPHENSON CO, Trustees**  
WELLS, - - - MICHIGAN

## PLYMOUTH CLAY PRODUCTS COMPANY

FORT DODGE, IOWA

MANUFACTURERS OF

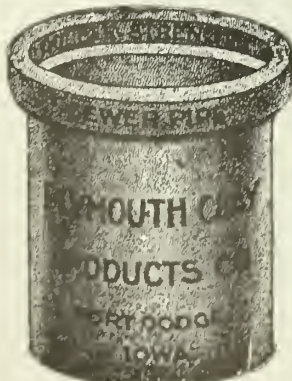
**Large Drain Tile**

**Sewer Pipe**

**Well Pipe**

**Flue Linings**

**Wall Coping**



## WARREN DESIGN COLONIAL

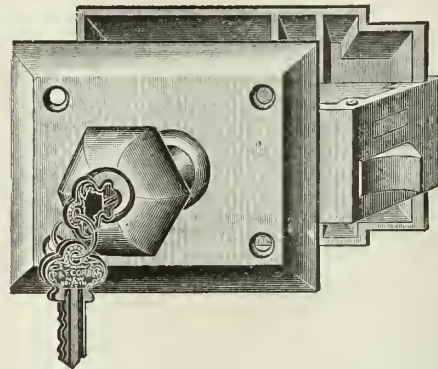
"CORBIN"

hardware provides the  
distinction and worth  
that lies in artistic de-  
signs and honest work-  
manship.

Ask for Catalogs

**WARNER HARDWARE CO.**

13 So. 6th St.  
Minneapolis.



**CORBIN  
LOCKS**

We make a  
Specialty of fine  
Builders' Hard-  
ware and Con-  
tractors' Supplies  
Estimates fur-  
nished promptly.

**ADAM DECKER HARDWARE COMPANY**

347-49 JACKSON STREET

ST. PAUL, MINN.

## BUILDING MATERIALS

SASH

DOORS

INTERIOR

SASH  
DOORS  
AND ALL KINDS OF  
MILL  
WORK

FINISH

MANTLES

GRILLS

All Kinds

of Glass

LET US FIGURE; ALL ESTIMATES FREE

**CARR-CULLEN CO., Minneapolis**

10 Ave. N. E. and Marshall St. N. E. Tel. N. W. East 345. T. S. No. 345.

Face Brick      Enameled Brick  
Architectural Terra Cotta  
Metal Lath  
Cabot's Creosote  
Shingle Stains and  
Sheathing Quilt

**JOHNSON - JACKSON & CORNING CO.**

216-17 Lumber Exchange  
MINNEAPOLIS, MINN.

633 Ryan Building  
ST. PAUL, MINN.



# The IMPROVEMENT BULLETIN

OFFICIAL ORGAN OF THE MINNESOTA STATE ASSOCIATION OF BUILDERS EXCHANGES

VOLUME XLVII.

SATURDAY, APRIL 18, 1914

NUMBER 20

## EDITORIAL

O. L. COLBURN, Editor

### DES MOINES CONSIDERS CENTRAL HEAT PLANT.

Iowa's capitol, which is soon to be made more attractive with the expenditure of \$2,000,000 for enlarging and beautifying the capitol park, is now considering one of the best means of keeping a city clean—a central heating plant. This modern improvement goes far towards eliminating the smoke nuisance. Des Moines' opportunity for this improvement is presented by a traction company the "McKinley system," which operates many lines in Illinois and includes the Des Moines Electric as a subsidiary. The company proposes a \$500,000 plant. It held a conference with the Chamber of Commerce directors and submitted plans for sounding the sentiment of Des Moines business men. If they want the heating plant, the company will negotiate for a franchise for the entire city, but the initial plant will serve only the West Des Moines business district. Engineers for the company say it is impractical to attempt to cross the river with the mains. If the East Des Moines men want similar service, a secondary plant will be located in that section of the city. Steam heat will be used. Alleys will be used as much as possible for the mains to prevent tearing up busy streets during the process of construction.

Many business men of Des Moines are in favor of the proposition, according to reports. They say that in other cities where such systems are used heat from central plants is less expensive and that the reduced fire hazard lowers insurance rates.

### WHEN SKYSCRAPERS COMPETE.

Theodore Starrett, writing in *Architecture and Building*, a conservative, worthy journal, published at New York for the last generation, gives us westerners another glimpse of the high building in that city as a piece of property. He says that it paid, in many instances, when new. Competition of similar structures changed the record and now, he states, it is beginning to run behind. This information is the same in character as we have received directly and indirectly from the city of skyscrapers. Mr. Starrett's statement furnishes the most powerful reason in America for their waning popularity. They were an abnormal development, an excrescence. The life of such things is seldom or never long. We will have better cities, better business conditions of central property, better architecture, and many other down town improved conditions as the towering office building loses its hold on the public mind.

One of the most beautiful effects of the construction of the "highest buildings" was produced by building two of them, leaving a little old, sheepish, humiliated, thing of only a few stories, and plebian front, in between. Such achievements in the artistic appearance of American cities has gone far to make them famous. Mr. Starrett says many of the little ones in New York are ignominiously covered with billboards above the first story, indicating vacancy up there. By all means let us have more skyscrapers so that the artists of the signboard ateliers may find suitable places to display their noble work.

### THE SQUARE DEAL CORNER.

For a time it seemed that C. M. Steenberg, the St. Paul contractor, who was the lowest bidder for the Ramsay school addition but found that he had forgot to include the items of carpenter work and roofing, would be held to his contract and there were newspaper headings about the money the city would save at the expense of the mistake. It is pleasant to record that the awarding committee decided to release Mr. Steenberg. We are all human and we all make mistakes. Fellow citizens of the contractor were in a position, as officials, to force a loss upon him. Better impulses prevailed. It was a square deal to excuse him, and punishment enough to give the contract to the next lowest bidder.

### FIRST USE OF ELECTRICITY ON IRRIGATION PROJECT.

H. N. Savage, supervising engineer in charge of the government work on the Milk River and Sun River projects, in Montana, is using electricity wherever power is required. He says it is the first instance of the use of that power in the construction of a great irrigation project. Its ultimate use, he adds, will be to supply towns which will spring up through the projects.

The Montana Power Co. has constructed a high-power transmission line, 75 miles long, from the great falls of the Missouri westerly the entire length of the Sun river project and the government has constructed a distributing transmission line along the main canal and into the general distributing system. The power is delivered to the contractors by the U. S. and is being used to propel the machinery employed in constructing the canal works, drains, structures, driving tunnels and for many other purposes. The contractors are using unusually large excavating machinery. Their drag line scraper weighs 125 tons and has 100-foot booms, and a bucket of three and one-half yards capacity; other equipment is in proportion.

### WISCONSIN'S PROPOSED STATE BUILDING CODE.

Wisconsin is considering a building code for the whole state. The industrial commission of the state has drafted a document which deals with public buildings, hotels, theaters, schools, apartment houses, factories, stores. It does not include private dwellings.

To ascertain that the provisions of the proposed law can be enforced the commission has sent an inspector, of its staff, on a tour about the state and he has conferred with fire chiefs, engineers, architects and owners. He has called meetings in many cities and towns. At these gatherings he has discussed the code with the people. It thus appears that Wisconsin has gone into this important matter with unusual care and consideration, a fact which undoubtedly will cause all thinking people in the construction field to watch the results closely. Ever since the Iroquois theater fire in Chicago, with its five hundred victims, the fire-trap play house has been doomed. Fire-traps of other kinds must go, not only in the large cities, but also in the towns and villages. The inspector for the Wisconsin commission, S. J. Williams, of Madison, believes that the code will do much in not only preventing loss of life, but be a great preventative of fires in the state. After scores of children had lost their lives in a school house fire at Collinwood, Ohio, the state of Ohio adopted a building code which is much more drastic than the proposed Wisconsin code. Other states have had similar experiences. Wisconsin has been unusually fortunate in having had no disastrously fatal fire since the Newhall house burned in Milwaukee thirty years ago. The old fire escape law was a step in the right direction but it did not strike at the root of the danger. To allow the construction of flimsy wooden theaters and buildings of a like nature, with perhaps one narrow stairway, and then hope to protect the lives of the people by adding a fire escape, is just as short-sighted, according to the Wisconsin industrial commission, as it would be for a physician to wait calmly until an infection had developed to a point necessitating amputation of an entire leg, and then prescribe a pair of crutches. The crutches are better than nothing, and that is about all that can be said in their favor. The same is usually true of a fire escape. This was illustrated in the recent panic at Calumet, Mich., where almost no one thought of using the fire escape.

### WINNIPEG PRICES ABOUT THE SAME.

The prices on building material in Winnipeg this year will be little higher than they were last year, probably from 2½ to 3 per cent., according to the supply men dealing in stone, cement, lumber, etc.

The Coast Lumber Co. states that lumber itself will remain about the same in price. Dimension lumber will command the same figure that it did last year, sheathing board will come a little higher and flooring a little lower, so in the long run the material evens up.



# The Architect Saves You Money

By Louis C. Newhall, President Boston Architectural Club.

The architect, like Shakespeare's "Man," plays many parts in his profession. Yet the part he plays in the planning and erection of a building of any kind is an almost unknown quantity in the minds of business men and owners generally, whether this involves the expenditure of much or little money in the building of a small private house or the erection of an imposing business structure.

The province of the architect bears the same relation to the owner as that of a specialist in medicine to his patient. It is the architect's business to know all the conditions that the owner wants to meet in a house or building.

It is the architect's business to be so familiar with costs of labor and materials that he can, with a reasonable degree of accuracy, tell the intending builder the cost of the structure that is to be built. It goes without saying that a specialist in medicine will often save the cost of his fee to his patient by knowing exactly what to do, and so where an owner consults an architect who has had training and experience, he will pay for the cost of services and obtain a result proportionate thereto.

It has been a mistaken notion on the part of many people that the employment of an architect would necessarily increase the cost of a building. This is not so, because the trained architect, knowing his cost of labor and material, will so apportion this cost and so plan his building that he will save his commission to the owner by economical planning and designing, and at the same time produce the most economical building, at the least possible cost.

This is where the owner many times makes his mistake.

The public at large do not realize that architecture is a precise profession; one that is based absolutely on experience in building matters, and that the trained architect can and does build economically and reasonably, and that he can obtain, with the use of the same amount of labor and materials that an untrained man would use, results far better than this same untrained man, under the same circumstances, and often times at less cost.

Real estate owners, and men who develop property, think many times that they are economizing in obtaining mediocre ability and that by buying plans outright from builders they are saving on their investment. The result is quite to the contrary. After the development is completed, the buildings done, they find they do not have the investment value that some other building, or some other property has which has been carefully considered, not only from the standpoint of architecture, but from the standpoint of investment also.

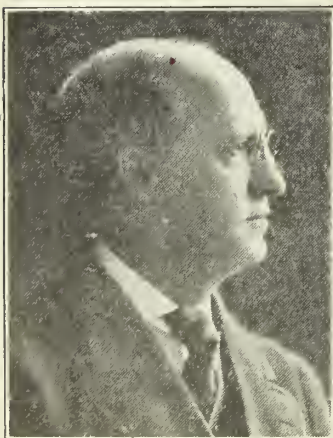
Too often the real estate promoter cuts his nose off and never realizes that his property is not as attractive as some other, and does not yield the same proportionate profit. It has been demonstrated to many real estate promoters that the employment of the very best class of architects obtainable is really the wisest kind of an investment for them, and a real economy in the long run.

This is true, not only in designing, but in superintending of buildings, for the architect who is thoroughly trained should be of decided value to an owner in the carrying out of any building project. There are numberless instances during the progress of a building where an architect's advice, decision and initiative are of the utmost value and importance.

## PERSONAL AND GENERAL NEWS.

Doings of the Northwest this Week Boiled Down for Busy Readers

### PERSONAL AND GENERAL.



R. E. Brown, the new president of the Minnesota Electrical Association, which includes many managers of electric service plants, is manager for the Consumers Power Co. at Mankato. He has had a long and successful experience in the field. He was manager and part owner of the Mankato gas and electric company for twenty-three years, 1887 to 1910. When the sale was made to Byllesby & Co., he remained as general manager. Mr. Brown is a member of the National Electric Light Association, American Gas Association and the Mankato Automobile Association. The annual meeting of the Minnesota Electrical Association was

held here recently at the Radisson hotel. Fred A. Otto, of the St. Paul Gas Co., was re-elected secretary.

Irwin E. Russell, contractor, Brainerd, Minn., has sued the Western Union for \$2,000 damages, on the claim that a message was not delivered to him until 24 days after receipt at local office.

"Electrify Minneapolis" is the motto of the new Minneapolis Jovian league of electrical men, to meet Tuesday evening at the West hotel. Officers: president, O. M. Frykman; vice president, F. G. Dustin; secretary, W. T. White; treasurer, G. G. Fletcher. The committees are: Ways and means, T. D. Crocker, T. W. Findley, A. W. Zahm; educational, L. N. Cooper, R. F. Geeska, O. A. Rofelty; entertainment, C. E. Hansing, Paul Joslyn, W. H. Reker; membership, Guy See, C. R. Becker, R. S. Chase; executive, O. M. Frykman, F. G. Dustin, W. T. White, G. G. Fletcher, L. H. Cooper, T. D. Crocker, C. E. Hansing, Guy See.

Permits were taken out in eighty-three principal cities in March, according to official reports to Construction News, for the erection of 20,936 buildings involving a total esti-

mated cost of \$65,870,993, as against 19,293 buildings and \$67,122,506 in cost for the corresponding month a year ago, an increase of 1,643 buildings and a decrease of \$1,251,513 or 2 per cent. This is a very satisfactory condition of affairs and taking into consideration that there were gains in forty-eight cities and losses in only thirty-three, would incline one

John W. Dyson will conduct the business of the Style Home Electrical Co., Hibbing, Minn., succeeding John Dyson and Thomas Slattery.

A. E. Carpenter for seven years with the Eastern Wisconsin Railway & Light Co., became manager of the Lomira, Wis., light plant April 15.

Grand Forks Builders' & Traders' Exchange appointed Robt. Spriggs, Geo. Buckingham and A. Hanson a committee to urge the school board to start a night school for working men of the city.

Fifty thousand brick will be used by Vollbrecht & Ahlf of Le Sueur, Minn., who are the contractors of the Lutheran church at Mapleton. The brick will be used for inside walls.

Contractor Frank Uecke of Menominee, Mich., and others figured the Peshtigo jail.

Charles Welker, of Welker Bros. Occidental Elevator, Wibaux, Mont., has invented a car-loader and a company formed to place the machine on the market, with offices in the Corn Exchange, Minneapolis, and at Wibaux. Al. Fuller, general manager, will take charge of the Minneapolis office.

A. L. McLaughlin and D. J. O'Neil, contractors, Livingston, Mont., are installing a water works system at Columbus, Mont.

Contractor Geo. Cochren of Bemidji, Minn., is reported to be ready to give \$1,000 towards first-class summer hotel on Bemidji Lake. He is preparing to build fifteen log cottages on his property at the head of the lakes.

J. M. Vickers of Redfield, S. D., with George R. Creel of Lewistown, Mont., will establish a marble and granite works at Lewistown.

E. C. Carruth, Havre, reports the city growing prosperously with numerous new buildings assured for this year.

Correctionville, Iowa, has bought the Union Light & Power plant for \$17,000 and will use it in connection with the municipal water system.

The Waterloo Sand & Gravel Co. was recently organized; capital, \$20,000; A. R. Stillwagen, president; L. M. Taylor,



vice president; Leo. R. Leeper, secretary; B. C. Mason, treasurer.

O. J. Olson, contractor, of Bloomer, Wis., has a contract to build a bank near Minneapolis.

The following have been chosen officers of the new Hill County Creamery Co., at Havre, Mont.: H. W. Stringfellow, president; H. J. Sprague, vice president; G. L. Forge, secretary. The company buildings are to be erected on 2d st., and the contract for their erection will be let about the first of April.

Gamble & Ludwig's large party of painters assembled last week at the Orpheum theater for the performance and later for a smoker at the Athletic Club, Radisson hotel; it was a big success. Nearly five hundred painters and local dealers attended. The entertainment was a means of announcing that the veteran firm, Gamble & Ludwig had become the sole local agents for the Masury paints. G. S. Sheffield, manager of the Northwestern Masury branch, assisted the hosts.

#### GRAND FORKS BUILDERS' & TRADERS' EXCHANGE.

Plans on file for furniture and fixtures, and decorating of Grand Forks court house, Grand Forks. Architects, Buechner & Orth; time, May 7; also for 2-story brick store and hall building, York, N. D., time April 25; four-room school building, Dahlen, N. D., architect, J. W. Ross & Son; time May 11.

#### ARCHITECTS AND ENGINEERS.

T. Ivarson, chemical engineer, connected with the laboratory of the Virginia, Minn., district of the Oliver Iron Mining Co., read an interesting paper before the regular meeting of the Virginia Engineering Society on gas plants. Mr. Ivarson discussed in detail every kind of gas plant from the standpoint of operation, N. A. Smith, who is here in the interests of a company interested in installing a gas plant in Virginia, also gave a talk. Mr. Smith favored high pressure water gas plants. Members of the city council attended. A. B. Holley presided.

Vanduesen & Stevens, architects of Winona, Minn., have been favored with an order for plans for a modern home by Matthew G. Baker, a former resident and son of contractor K. J. Becker of Winona, who expects to build at Bourbon, Ill.

As a result of a visit to Winona, and consultation with E. L. McLanahan, county surveyor at Monmouth, Ill., engineer Geo. W. Cooley and assistant engineer Jno. H. Mullen of the

state highway commission will before long pay a visit to Monmouth and look into the construction of the different kinds of brick highways in that section. They have not committed themselves on the subject as yet but if the visit sustains the claims of Mr. McLanahan that it is practical to build a brick highway eight feet wide on a central sand cushion two inches thick with tapering crushed stone shoulders on either side it is quite likely says the Winona Herald, that such construction may be approved by the highway commission for road improvement in Minnesota.

S. A. Siverts, civil engineer, has been engaged as city manager by the city of Morris, at \$1,500 a year.

Dorr Skeels, recently logging engineer, U. S. Forest Service, with headquarters at Missoula, Mont., has been appointed dean of the new Montana state school of forestry of the University of Montana. Mr. Skeels has been in the U. S. Forest Service since 1906, and for several years has been a member of the staff of instruction of the university.

C. P. Fowler, engineer connected with the firm of Day & Zimmerman, electrical engineers, Philadelphia, who has been making an examination of the Mesaba railway line, for eastern capitalists, who are about to buy some of its bonds, presumed to be issued for the purpose of making extensions to the line, left Virginia recently after having spent a week in looking over the range. Mr. Fowler declined to say anything with regard to the Biwabik extension, declaring the matter was wholly up to local officials. The opinion prevails, however, that the Biwabik extension will be made.

Range engineers, mining, mechanical and chemical, met at Virginia, Minn., and effected a temporary organization: A. B. Holley as president and D. E. Charlton as secretary. A committee consisting of J. H. Eby, H. K. Greenwood, D. C. Reed, C. M. Dorway and J. H. Haidja, was appointed to formulate plans for the permanent organization. A program committee was appointed as follows: A. E. Anderson, C. C. Maudsley, G. E. LeVeque, W. Bushnell and E. Munsen.

E. P. Callahan, of Minneapolis, who was chief superintendent of construction of the Keokuk, Iowa, dam, has full charge of the work at Little Falls, Minn., where a large dam is to be built for the water power company. He has moved there with his family for the summer.

E. W. Youngdale, assistant state highway engineer, who was recently appointed to look after the building of state roads in Yellow Medicine county, arrived a short time ago from North Yakima, Washington, and is making Granite Falls his headquarters.

Geo. Ralph, E. V. Willard, Prof John T. Stewart and



**MAZDA LAMP FACTORY, NORTHEAST MINNEAPOLIS.**

This is one of the numerous large and thoroughly modern manufactories recently added to Minneapolis' long list of plants; the Mazda electric lamp factory at Broadway and

Jackson st. Floor area, 150,000 square feet. Samuel J. Austin & Sons Co., Cleveland, Ohio, general contractors, just completed their work this week. Operation of the plant will begin as soon as equipment is installed.



others will attend National Drainage Congress, Savannah, Ga., April 22-25, from Minnesota.

A large number of architects from both cities, heard Wm. D. Gates gave his talk on terra cotta and pottery before the Minneapolis Architectural and Gargoyle clubs. Every listener felt the inspiration that comes from a wonderful work of combining soul and art with the commercial side of life. Mr. Gates' talk showed what can be done and is daily taking place, in the artistic use of terra cotta. His remarks were amplified by numerous slides which gave a history of the modern development of this material and it also showed what can be accomplished by men who work in the proper environment and with the heart and eye, for the guidance of the hand. On April 21, Mr. C. A. Gunn of the Hydraulic Press Brick Co. will entertain the club with a talk on "Brick Suggestions," illustrated with moving pictures.

Government examinations will be held in St. Paul May 6 and 7, for assistant farm architects and barn architects.

H. R. Albert, Green Bay, has filed as a candidate for city engineer. He is a member of Orbert & Albert and was in the city engineer's office a number of years.

Ira C. Burdine, St. Paul contractor, who died recently is survived by a widow, a son, Edward A. Burdine, and two daughters.

Fred Elliott, contractor, Great Falls, Mont., has returned from California where he spent the winter.

Joseph B. Estabrook and Clarence R. Short, junior engineers, have been assigned to the Flathead irrigation project.

District Engineer Starr, state highway commission, has been assigned, on request of Clay county, to give all his time to that county and an automobile has been assigned to him.

Michael Spettel, who died in St. Paul recently, was the designer of the pantoon bridge, Prairie du Chien, Wis., one of the largest ever built.

J. A. Pryor, for two years township engineer at Hibbing, is now with the state highway commission at Owatonna. His work as a road builder has been especially commended.

E. W. Johnson of Aurora, Minn., formerly with Longyear Co., is now with Pitt Iron Mining Co., Virginia, as engineer.

Charles T. Sackett has succeeded C. D. Flaherty as county surveyor at Livingston, Mont.

J. A. Erickson has been appointed by state highway commission as road superintendent for Norman county, and will reside at Ada.

Orvis Hinds, surveyor, Thief River Falls, Minn., has been engaged for work in Crookston, Minn.

One of the most largely attended meetings ever held in Detroit, Minn., was attracted by Chas. A. Forbes, traveling engineer of the state highway commission who gave an illustrated lecture at the Scenic theater. One hundred farmers attended. Local critics praised him as a very entertaining talker.

A crew of U. S. engineers are expected to soon arrive at Cohasset, Minn., to make preparations for the dredging and straightening of the river channel between Pokegama and Winnebigoishish dams, and also the thoroughfare between Pokegama lake and the river.

George B. Ferry, Milwaukee, of the Wisconsin chapter, A. I. A., addressed the quarterly meeting of the Wisconsin State Fire Prevention association, April 13.

E. O. Kuenzli, of Charlton-Kuenzli, architects, Milwaukee, was elected alderman of the second ward, city of Wauwatosa, in the election April 7. Mr. Kuenzli was unopposed.

Oscar Claussen, city engineer, St. Paul, and J. E. Carroll, assistant, went to Chicago and Milwaukee to inspect road machinery.

James R. Law has opened an architect's office at his residence, 933 W. Johnson st., Madison, Wis.

W. H. Blair, architect, Janesville, Wis., is in new offices at 306 Jackman block.

F. W. Cappellen, city engineer, Minneapolis, addressed the joint meeting of improvement associations on sewage in the Mississippi.

Lloyd O. Willis, architect, Omaha, has returned from Egypt.

W. L. Steele, architect, city engineer Fred C. Smith and the city attorney of Sioux City, Iowa, are a commission to frame a building code.

The Hemmiller-Martin Co., architects, will locate in Fargo, they are from Redfield, S. D., and will open their Fargo office June 15.

Geo. D. Mackie, formerly city engineer of Swift Current, Sask., has been appointed city engineer of Moose Jaw, Sask.

University of Minnesota engineering students have be-

gun experimental work with a 4-cylinder 40-h. p. automobile engine. The work is to be done under the direction of Wm. H. Kavanaugh, professor of experimental engineering.

President Geo. F. Reeke of Brown County Contractors & Builders' association, Green Bay, Wis., is leading a move to establish a builders' exchange in central quarters.

## CEMENT AND CONCRETE

At the last annual meeting of the United States Steel Corporation, it was announced by Judge E. H. Gary, chairman of the board of directors, in his address to the shareholders that the Minnesota Steel Co.'s plant here would be completed ready to go into operation in the spring of 1915, and that the Universal Portland Cement Co.'s plant would be finished at about the same time.

The Luverne, Minn. Concrete Co. has installed a new tamping machine and twenty new steel cars.

A. D. Choan, Pacific hotel, Minneota, Minn., has succeeded G. M. Kerney in the cement business at that place.

James Emslie, contractor of Virginia City, Mont., left Mar. 26, for his boyhood home in Scotland. He will return July 1.

W. H. Nelson, contractor, Marion, N. D., contemplates O. Erickson, of Erickson & Long, railroad contractors, locating at Gettysburg, S. D.

with work at Schafer, N. D., is spending a few weeks on the Pacific coast.

## BRICK AND TILE NEWS

Weather resisting qualities of brick are being tested in St. Paul for officials of the Great Northern by building 12 sample walls, brick to be used in the big new headquarters building of G. N. and N. P.

R. Kielzing advertises their brick yard for sale at Trempealeau, Wis.

Cement works owned by Milwaukee road at Tomah, Wis., is in operation again after four months shut down.

A. C. Ochs Brick & Tile Co., Springfield, Minn., have found their silos in big demand recently. Numerous customers included: A. C. Johnson, superintendent, passenger traffic, N. W. road, Chicago, who ordered two silos for Frankfort, S. D.

Alsip Brick, Tile & Lumber Co., of Grand Forks, N. D., has opened offices in Winnipeg, Man., Tribune building.

The new plant of the Vale Brick Co., located near Kansas City, will open for business about April 1, initial capacity will be about 75,000 common brick daily; George T. Stephens, president of the company is also manager of the Bryant Supply Co., Kansas City; Bryant Supply Co. will probably handle the output of the Vale Brick Co.

Secretary G. W. Thurston of Western Paving Brick Manufacturers' association has closed contracts for the following orders for paving brick. 85,000 square yards of three-inch vertical fibre brick at Hutchinson, Kas.; 6,000 yards of No. 1 Standard blocks at Lincoln, Neb.; 4,000 yards at Sac City, Iowa; 3,000 yards at Webster City, Iowa; and 4,000 yards at Wichita, Kas.; also 8,000 yards at Kansas City. There are said to be number of large contracts pending which will be closed in a few days.

## BUILDERS' EXCHANGE, MINNEAPOLIS.

Plans on file April 11: Bank and business building, Comfrey, Minn., bids open Apr. 15; school, St. Cloud, Minn., bids, April 16; theater, Windom, Minn., bids open April 20; chemistry building, Vermillion, S. D., bids open April 22; mechanical equipment, hotel, Bemidji, Minn., bids open April 22; townsite, Minnesota Steel Co., Duluth, Minn., bids open April 24; bank, Grafton, N. D., bids open April 25; high school, Arcadia, Wis., bids open April 28; store, Frank Fandel, St. Cloud, Minn., bids open April 28; Ardock school, Ardock, N. D., bids open May 4; postoffice, Wahpeton, N. D., bids open May 5; church, Dawson, Minn., bids open May 6; school, Dahlen, N. D., bids open May 11; hotel, Rochester, Minn.; bank, Plentywood, Mont.; city hospital, Menomonie, Wis.

Bids in. Garage, Fargo, N. D.; bank, Beltrami, Minn.; mechanical equipment, Wm. Penn school, Minneapolis; cottages No. 8 and 9, Anoka, Minn.

Contracts awarded: School, Cooperstown, N. D., John Schlanser Co., Fargo; heating and plumbing, school, Coopers-town, N. D., Champlin & Hanson, Fargo.



# CONSTRUCTION & CONTRACT NEWS

OF SPECIAL VALUE TO ENGINEERS, CONTRACTORS, BUILDERS AND MANUFACTURERS

## MINNEAPOLIS, MINN.

Office: 912 Lumber Exchange.  
Phones: N. W. 3902. T. S. 2194.  
Please telephone news not later than Wednesday.

Items marked with asterisks not in Daily Sheets.

### BUILDING PERMITS.

J. W. Farnham, 4016 Garfield av., 2-story plaster veneer dwl.; C. H. Heu De Bourck, builder.....	3,000
Villa M. Clint, 4645 S. Aldrich av., 1½-story plaster veneer dwl.; Nelson-Enblom Const. Co., builders.....	2,800
Mandel Bros., owners and builders, 1115 N. James av., 2-story plaster veneer duplex.....	5,000
W. H. Richards, 4401 Colfax av. S., 2-story plaster veneer dwl.....	2,800
J. C. Heritage, 704-08 W. 26th st., 1-story brick addition and alterations to store building.....	5,000
Thure E. Anderson, 3825 Longfellow av., 1½-story frame dwl.....	2,000
Paridon and Johanna Johnson, 2647 N. Dupont av., 2-story plaster veneer dwl.; S. B. Appleton, builder.....	2,600
Esther M. Beck, 3339 15th av. S., 1½-story frame dwl.; Albert Anderson, builder.....	3,500
Chas. H. Globke, 2753 Cedar av., 2-story frame dwl.; Sam Serigstad, builder.....	2,600
Chas. Johnson, 3727 21st av. S., 1½-story plaster veneer dwl.; Sam Serigstad, builder.....	2,400
Ed. Horde, 3332 23d av. S., 1½-story plaster veneer dwl.; Sam Serigstad, builder.....	3,000
Helgo Anderson, 3719 21st av. S., 1½-story frame dwl.....	2,000
Carl Olson, 3029 Cedar av., 2-story plaster veneer duplex; A. C. Galchutt, builder.....	5,000
J. E. Andrus, 325-31 Nicollet av. and 32-44 S. 4th st., 2-story brick, tile, steel and reinforced concrete addition on Palace building; Thorpe Bros., builders.....	250,000
J. A. Lundeen, 2523 Quincy st. NE., 1½-story frame dwl.; Hugh L. Watts, builder.....	2,000
Mrs. Daisy Davidson, 2426 N. Girard av., finish frame dwl.; J. E. Cogswell, builder.....	2,500
Marc Rosenthal, 1718 8th av. N., 1-story plaster veneer dwl., 1½-story frame barn; G. W. Spriestersbach, builder	4,310
Elmer G. Johnson, 2223 Pierce st. NE., 1½-story frame dwl.; C. J. Byquist, builder.....	2,500
David Berry, 2105 17th av. S., 2-story plaster veneer flats (4).....	5,000
Ole J. Wallin, 3036 Longfellow av., 1½-story frame dwl....	2,500
Frank Buestow, 1704 Como av. SE., 1½-story plaster veneer dwl.; Luther James, builder.....	2,000
Arcade Amusement Co., 1000-02 6th av. N., 1-story brick, tile and reinforced concrete theatre; Fleisher-Rose Const. Co., builders.....	22,000
W. N. Monasch, 2201 S. Oliver av., 2-story plaster veneer dwl.; Nelson-Enblom Co., builder.....	5,000
David A. and Tola H. Ravitch, 3312-14 4th av. S., 2-story frame flats (4); Paul A. Law, builder.....	7,600
David A. and Tola H. Ravitch, 3316-18 4th av. S., 2-story frame flats (4); Paul A. Law, builder.....	7,600
David A. and Tola H. Ravitch, 3320-22 4th av. S., 2-story frame flats (4); Paul A. Law, builder.....	7,600
Oscar Knudson, 4147 41st av. S., 1-story frame dwl.; C. J. Berg, builder.....	2,000
J. R. Howie, 2880 S. Irving av., 2-story plaster veneer flats (4); J. F. Baker, builder.....	7,000
Board of Education, 18th av. and Emerson av. N., 1-story brick addition to Logan school; Jas. Peterson, builder....	3,140
Oscar Newstrom, 712 15th av. S., 1½-story frame dwl.....	2,500
F. T. Ryan, 1516 Brook av. SE., 1½-story plaster veneer dwl.; contract not let.....	2,000
J. H. Coloton, 1623 W. Lake st., 2-story brick veneer flats (4).....	10,000
F. P. Lenhart, 2626-28 University av. SE., 2-story brick office building; C. G. Linden, builder.....	8,000
Joseph A. Waldherr, 1918 Fillmore st. NE., 1½-story frame dwl.; J. P. Schoomor, builder.....	2,000
D. J. Thomas, 3729 16th av. S., 1-story plaster veneer dwl.; And. Larson & Son, builders.....	3,000
L. J. Haas, 3220 Calhoun boul., 1½-story plaster veneer and brick veneer dwl.....	3,500
John Wahlstrand, 2939 N. Emerson av., 1½-story frame dwl.....	2,400
Chas. O. Swanson, 100 W. 27th st., 2-story plaster veneer duplex.....	4,500
Bridgman & Ryan, 4725 Bryant av. S., 1-story frame dwl..	3,300
J. S. McClay, 4453 Stevens av., 1½-story frame dwl.....	2,000
H. A. Sanger, 3833 S. Lyndale av., 1-story plaster veneer dwl.....	3,000
Haften, 1222 N. Irving av., 1½-story plaster veneer dwl....	2,000
Harry L. McCoig, owner and builder, 947 18th av. SE., 1½-story frame dwl.....	2,675
Harry L. McCoig, 4037 S. Zenith av., 1-story frame dwl.; H. L. McCoig, builder.....	2,675
James I. and Hilma C. Tastad, 3415 1st av. S., 2-story plaster veneer duplex.....	4,000

Bids on the \$250,000 addition of 9-story on the Palace building 4th and Nicollet, will not be taken at once; information at the office of Thorpe Bros., is that a number of contractors will be notified later on; it will not be day labor, with supervision by Thorpe Bros.; permit was taken out sometime in advance of contemplated construction to avoid danger of pending ordinance limiting height of buildings to 12-story; addition

will be first class, modern office building construction; Long, Lamoreaux & Long, architects, 830 Hennepin.

J. E. Nason, architect, Corn Exchange, is preparing plans for a Masonic Temple, Benson, Minn.; 50x75, brick, 2-story and basement, auditorium in basement, assembly room, reception room, kitchen, smoking room, first floor; lodge rooms, etc.; second floor, steam heat, plumbing, electric light, telephone system, electric bells, two brick fireplaces, steel ceilings, oak floors and trim, skylight, pitch and gravel roof, art and plate glass, marquis, \$30,000; plans ready April 24; owner will let work.

W. S. Hunt, architect, Northwestern block, has plans out this week for a dwelling, Portland near 24th, for J. E. Hedlund, 1423 Washington av. S.; stucco, metal lath, two baths, laundry, hot water heat, electric light, architect will let work.

G. W. Spriestersbach, 2906 Emerson av. N., has contract for a dwelling and barn at 1718 8th av. N., for Marc Rosenphal; 26x46, plaster veneer, modern, hot water heat; barn, 14x14, 1½-story, total cost \$4,310.

Parochial school for St. Stephen's parish, 22d and Clinton, will be built; plans out, E. J. Donohue, architect, Gilfillan block, St. Paul; Rev. J. H. Gaughan, pastor; 120x116, brick, concrete, 9-rooms, parish hall for 750; reinforced concrete floor, tile partitions, tar and gravel roof, mill construction, suspended ceiling, Kasota marble, terrazo floors, Bedford trim, steam heat; mechanical equipment, plans later; gymnasium and bowling in basement.

Chas. A. Berger, refrigeration engineer and architect, Sykes block, is preparing plans for a modern fur storage room in Douglas-Fiske building, Nicollet between 9th and 10th, for Ludgsdin & Co.; refrigeration machinery, cork insulation, air circulating, all fireproof, capacity 500,000 furs; Victor DeBrauwere, architect, Plymouth building.

\*Tyrie & Chapman and Carl A. Gage, associate architects, have prepared plans for a modern residence in Homewood, for A. U. Morrell, Palace building; hollow tile, slate roof, marble fireplace, white enamel and mahogany finish; contract to Richard Billingsley, Kasota block; mechanical equipment contract to be let later.

Residences to cost \$125,000, are being planned by Harry W. Jones, architect, Lumber Exchange; to be built by E. Mapes, 1608 Hawthorne av., (Cream of Wheat Co.) for himself, son and daughter, in Lake of the Isles district; all fireproof, completely modern, details later.

David A. Ravitch, 115 Washington av. S., and Tola Ravitch are building 2-story frame flat, four apartments, 3316-18 4th av. S., and 4-flat, 3312-14 4th av. S., four apartments, \$7,500 each; concrete foundations, hot water heat, modern; Paul A. Law, builder, 631 Jackson.

\*Trustees of Minnesota College, Delaware and Harvard SE., which will add \$100,000 buildings, include: Rev. E. O. Stone, Minneapolis, president; Rev. A. Noren, St. Paul, secretary; C. J. Johnson, Minneapolis, treasurer; Rev. Stone on building committee.

Harry W. Jones, architect, Lumber Exchange, has prepared plans for Lake cottage at Clear Lake, Iowa, for Geo. A. Hornel, Austin, Minn.; also will have plans out in a month for Baptist church, Russell, Iowa, frame, hot water heat, \$9,000.

Chas. A. Berger, refrigeration engineer and architect, Sykes block, is preparing plans for a fruit cold storage plant in S. G. Palmer Co.'s branch, to be built at Fergus Falls, Minn.; work started on building, general contract let, local.

W. Channing Whitney, architect, Loan & Trust building, has completed plans for a sorority house, University district, for the Gamma Phi Beta; frame, shingle exterior, stained, steam heat, plumbing, wiring, contract not let; 10,000

Nelson-Enblom Co., 615 Plymouth, contractors, will build a modern dwelling, 2201 S. Oliver, for Wm. Monasch, 1516 W. 27th; plans by Perry Crosier, Plymouth building; 28x28, plaster veneer, hot water heat, modern, \$5,000.

Construction of United Church hospital, Riverside, near river and Thomas hospital; 300 beds, will include this year, entire exterior, central part and two wings; one wing to be finished; total cost this year, \$125,000.

Bids received by county board, until 11 a. m., April 27, for grading and macadamizing, 6,600 feet road 7, and 2,100 feet road 43, Orono, Minnetonka Beach; check 5 per cent.

A. C. Galchutt, 3312 19th av. S., will build a duplex for



Carl Olson, at 3029 Cedar; 26x48, plaster veneer, hot water heat, concrete foundation, modern, \$5,000.

Bids received till 11 a. m., May 4, for painting Cedar av. bridge; specifications with county surveyor; check for 5 per cent; A. P. Erickson, county auditor.

Bids received until 11 a. m., April 27, by county board for repairing 46,210 feet road bed, road 5, state highway 1, west from city limits; check 5 per cent.

Bids received until 11 a. m., May 4, county board, for grading and graveling extension Broadway NE.; plans with county surveyor; check 5 per cent.

Brick tile and concrete theater will be built at 100 6th av. N., by Arcade Amusement Co.; Fleisher-Rose Co., contractors, Plymouth building, \$22,000.

S. J. Groves & Sons, Kasota block have started excavating for the \$300,000 Pillsbury elevator, 2d and 4th av. SE.

Fire damaged plant of Barrett Manufacturing Co., 1st st. and 19th av. S., \$40,000.

A \$1,000,000, hay terminal, Midway, may be built; Guy Carleton, secretary, St. Paul Hay & Grain board.

## ST. PAUL, MINN.

404 Scandinavian American Bank Building.

Phone: N. W. Cedar 1683.

Mail or telephone news not later than Wednesday.

*Items marked with asterisks not run in Daily Sheets.*

### BUILDING PERMITS.

J. W. Turner (secy.), builder, 1809 Benson, 1-story frame church, Montreal near Grace Lane.....	2,500
Abbott & Constance, 3-story brick addition, 353-57 Robert near 4th; Chas. Skoogline, builder.....	15,000
Boston Ground Rent Trust, 2-story brick stores and offices, Robert near 3d; Chas. Skoogline, builder.....	10,000
Frank Aubin, builder, 1742 Dayton, 1½-story frame dwl., Carroll near Wheeler.....	2,500
L. C. Haven, 696 Tuscarora, 1-story frame dwl., Wesley near Fry; G. H. Jones, builder.....	2,400
Sperry Realty Co., five electric freight elevators, Jackson st.; Gust Lagerquist, builder.....	5,000
P. C. Bayard, builder, 2375 Carter, 1½-story frame dwl., Carter near Commonwealth.....	2,800
Inez O. Haggerty, builder, 1706 Hague, 2-story frame dwl., Ashland near Herschel.....	2,500
E. M. Whittaker, Charles st., 1-story frame dwl., Brimhall near Grace.....	2,500
H. Andres, builder, 74 W. Congress, 2-story frame dwl., Winslow near Prospect terrace.....	4,900
J. H. Donlin, builder, 61 Como, 1½-story frame dwl., Como near Capitol boul.....	2,000
A. Ohlander, builder, 749 Sims, 2-story frame duplex dwl., Sims near Walsh.....	4,000
Wolf & Marx, builder, 2-story brick flats (4), Avon near Grand.....	13,500
Mrs. John Lynch, 2001 Dayton, 2-story frame dwl., Dayton near Cleveland; H. M. Elmes, builder.....	3,500
E. J. Vergosen, 567 Carroll, 1½-story frame dwl., Lincoln near Albart; H. M. Elmer, builder.....	3,200
J. H. Charleston, 1½-story frame addition and alterations, 1537 Randolph near Saratoga.....	5,000
D. S. Coffey, 2-story frame dwl., north side of Lake Gervais; Craftsman Bldg. Co., builders.....	4,500
C. A. Bucklin, 2-story frame dwl., 203 Macalester near Princeton; Craftsman Co., builders.....	4,800
H. D. Funk, 196 Vernon, 2-story frame dwl., 197 Macalester near Princeton; Craftsman Co., builders.....	3,500
Craftsman Bldg. Co., 1½-story dwl., 1667 St. Clair near Macalester.....	2,800
Craftsman Bldg. Co., 821 Commerce bldg., 1½-story dwl., 1663 St. Clair near Macalester.....	2,500
Craftsman Bldg. Co., builders, 1½-story dwl., 1657 St. Clair near Macalester.....	2,500
J. Chitrin, builder, 1398 Edmund, 2-story brick store and flats, Thomas near Hamline.....	8,000
Minnie E. Hall, builder, 705 Bidwell, 1½-story frame dwl., Bidwell near Page.....	2,500
B. Bagdanowicz, 1035 Jessamine, 1½-story frame dwl., Magnolia near Earl; Stan A. Lakarweski, builder.....	2,200
Joseph Ferber, builder, 375 Yankee, 2-story frame dwl., Randolph near Hamline.....	5,000
Dufries, 1½-story frame dwl., Minnehaha near Earl; L. Kalmen, builder.....	3,600
F. B. Stork, builder, 1761 Hague, 2-story frame duplex dwl., 1809 Ashland near Wheeler.....	6,000

A. Moorman & Co., have prepared plans for the Kandiyohi County Bank, at Willmar, Minnesota, exclusive for bank, 1-story, high ceiling, Bedford stone, fireproof construction, bronze doors and copper window frames, steel rail lined reinforced concrete vault, fire and burglar-proof doors; ornamental plaster beams, Roman terrazzo floors, imported marble counters and wainscoting, cathedral oak finish, special furniture, artistic decoration, direct and indirect lighting fixtures, ornamental iron and grille work, battleship linoleum floor covering, special arranged ventilating system, vacuum system steam heat, sanitary plumbing, shower bath. Work will be completed this summer; cost, \$60,000.

The Bungalow Construction Co., architects and contractors, 211 Dispatch building, have prepared plans for a 4-flat building, \$15,000; 6 rooms and sleeping porch on Portland av. for

H. O'Connor, 54x76; brick veneer, Danville cut stone trimmings, prominate tile terrace, oak and birch finish, tile bath, shower, 4 brick fireplaces, bookcases and sideboard leaded glass, vapor heat, packet sash in sun-parlor, kitchen, linen and medicine cabinets, tile roof in front, tar and gravel roof in rear, laundry tubs; plans completed in a week.

Bungalow Construction Co., architects and contractors, 211 Dispatch building have prepared plans for J. Bergman, Dale st., 30x40, \$5,000; Cast Stone Co. concrete block exterior, shingle gable and roof, brick fireplace, oak and birch trim, sideboard, kitchen, medical and linen cabinets, sleeping porch, laundry tubs, hot water heat, gas and electric light; owner building and taking bids on material.

O. M. Rogan, architect, Detroit building, 4th and Wabasha, announces bids until May 2, on plant at Ellsworth, Wis., for Lawton Butter & Cheese Co., cement block, tile, interior, concrete floors, sheet steel roof and steel ceiling, steel rolling shutters, cooling specifications, 46x86, covered driveway and concrete blocks, 12x30, plumbing, heating, later on; mechanical refrigeration not included.

Bungalow Construction Co., architects and Contractors, 211 Dispatch building, have plans under way for bungalow, for Allen, Lincoln av.; 6-room, 28x36, frame and stucco; \$3,800; modern, brick fireplace, sideboard, column arch, oak and birch finish and trim, kitchen, linen and medicine cabinets; laundry trays, hot water heat; plans out this week.

Chas. Skoogline, general contractor, Ryan Annex, was low among eight bidders, for the Ramsey county alms house, at \$43,200, appropriation \$50,000, to include heating and plumbing, etc.; board asked information bids on whole building, three units and low was \$134,000; all bids referred to Buechner & Orth, architects.

C. H. Johnston, architect, Capital Bank building, will have plans for the new Golden Rule store out for figures in two weeks; 6-story, reinforced concrete steel and stone, Bedford stone, terra cotta; enclosed iron stairways, 7 passenger, 2 freight elevators, sprinkler system, plate and prism glass, fire escapes.

Alfred H. Wheeler, architect, Globe building, is preparing plans for modern residence, Winnipeg, Man., for Dr. C. A. Parr; brick, stucco, electricity, grate, tile floors, oak and enamel finish, all modern improvements, hot water heat; \$10,000; contract to be let in Winnipeg.

E. J. Donohue, architect, Gilfillan block, has plans ready for St. Stephens parish school Minneapolis, Rev. J. H. Gaughan; owner will take figures; 120x116, 9-rooms, parish hall for 750, concrete, brick walls, Kasota marble, terrazo floors; mechanical equipment later.

Lee & Hoff got contract for elevator and dumb waiter, new public library, at \$14,100; Nimis & Nimis, electrical equipment, \$21,649; Kees Engineering Co., plumbing, \$11,449; heating and ventilation, Healey Plumbing & Heating Co., \$34,700; bids for book stacks May 5.

Plans complete for remodeling Chamber of Commerce building; contract to Geo. J. Grant Co., N. Y. Life building; Alban & Lockhart, architects; 6-story, fireproof, sidewalk lights, metal fronts, marble, tile, plate glass, additional heating and plumbing.

Bungalow Construction Co., Dispatch building, have completed plans for St. Paul Tennis club, on Osceola av., frame and stucco, 25x30; \$1,500, shower bath, locker rooms, lavatories, contract to be let soon; bids in for material.

E. J. Donohue, architect, Gilfillan block, completed plans this week, for parish school, Madison, Minn., 62x76, 2-story brick, fir trim, maple floors, 4-rooms, first floor, parish hall second floor; Rev. V. Schiffer, Madison.

Bungalow Construction Co., Dispatch building, have drawn plans for remodeling large residence into 6 kitchenette apartment \$3,000; on Lincoln av.; oak and birch trim and finish, hot water heat, owner's name withheld.

Alban & Lockhart, architects, Chamber of Commerce building, completed plans April 17, for Northwood high school; bids in May 5; plans out Nora Springs, Iowa, high school, April 21, no date for closing.

Readvertised bids for cottages 8 and 9 Anoka asylum, must be in, 2 p. m., April 27, other bids rejected; C. H. Johnston, architect, Capital Bank building; officially advertised in the Bulletin this week.

Alban & Lockhart, architects, Chamber of Commerce building have completed plans for J. Glennon residence, Stephens Point, Wis., owner will let all work; stucco, asphalt shingles; hot water heat.

Alban & Lockhart, architects, Chamber of Commerce building, let contract this week for foundation of I. O. O. F. lodge building, 9th st.; no date set for closing bids on rest of building.

J. H. Druar, Oscar Claussen Engineering Co., consulting engineers, Commercial building, is making report and will



furnish plans later for municipal electric light plant, Barron, Wis.

Sketches submitted and plans out soon for National Bank of Commerce building, 5th and Minnesota, 2-story, brick, ornamental iron, grilles, sidewalk lights, skylights, cut stone.

\*A 5-story reinforced concrete building will be erected on Minnesota Transfer trackage by White & Leonard Paper Co.; warehouse and general office.

O. H. Round, architect, Oppenheim building, has completed plans for Dr. Bryant's residence, Menomonie, Wis.; brick, modern, hot water heat.

Alfred H. Wheeler, architect, Globe building, will have supervision of remodeling 6th and Wabasha property for Peoples' State Bank.

Architects W. F. Keefe and H. E. Erickson, have removed from Union block, to fine new quarters in American National Bank building.

Boyd Construction Co., Germania Life building was low in bids for West St. Paul school; A. H. Wheeler, architect, Globe building.

J. O. Cederburg, Jr., architect, Endicott building, will have plans out April 27 for Swedish Baptist Conf. seminary; brick, modern.

Contract awarded telephone building, Northwood, Iowa, to E. D. C. Wright, Charles City, Iowa; Alban & Lockhart, architects.

Plans for ladies' gymnasium, state university, were to be out this week; C. H. Johnston, architect, Capital Bank building.

Fire damaged the plant of International Asphalt Refining Co., 842 Eustis; \$5,000; Clarence Kincaid, manager.

\*Permit for Minnesota club house issued; 3-story, brick, steel and concrete; \$130,000.

Work was started Sunday on new Glen Terrace Methodist Episcopal church.

\*White Bear will have a white way; \$5,000; fifteen blocks.

## OMAHA, NEB.

### BUILDING PERMITS.

Thomas Sullivan, 4123 N. 20th, frame dwl.....	2,000
G. W. Garloch, 3345 S. 17th, frame dwl.....	2,200
Maud Mogge, 2305 S. 35th av., frame dwl.....	2,500
A. E. Olander, 2709 Woolworth, frame dwl.....	2,500
W. E. McFarland, 3625 California, frame dwl.....	2,500
M. Garrison, 5916 N. 24th, frame dwl.....	2,500
R. W. Fadden, 5903 N. 24th, frame dwl.....	2,500

## HEAD OF THE LAKES

Office: 206 Manhattan Building. Telephone: Auto 3036.  
Mail or telephone news not later than Wednesday.

*Items marked with asterisks not in Daily Sheets.*

### DULUTH.

Arthur Hanford, architect, Sullwold building, has prepared plans for residence, Kenilworth Park, Louis Walton frame contract to Hanford Construction Co.; two residences, Cascade Square, for Richard McCue, frame, \$3,000, bids closed April 20; residence, Duluth Heights, for Highland Co., frame, ready for bids; residence, Colbyville, Minn., for H. C. Staacke, Duluth, frame, 26x44, bids in April 15, common brick, furnace heat, gas, pump, private light plant, patent plaster; residence 42d and Gladstone, for Miss Fish., frame, \$3,500, bids in April 20, common brick furnace heat, electric light, patent plaster, P. & L. paint, art glass, maple floors; office, Duluth Heights, Highland Co., 1-story, frame, 18x28, ready for bids.

National Iron Works has contract for steel frame fireproof building being added to American Carbolite plant; Duluth Corrugating & Roofing Co. will furnish roofing and siding; General Electric has contract new transformers, remodeling of shape and size of furnaces, and numerous other improvements.

Edward P. Shurick, architect, has prepared plans and is taking figures on a frame and stucco residence for D. D. Morgan of Virginia; hot water heating, hardwood finish; the same architect has plans out for an 8-room frame house for Mrs. G. Kraft of Kerrick, Minn., \$3,500.

P. M. Olson, architect, taking figures on brick and stucco residence for C. E. Patterson, Woodland av., Hunter's Park, cost \$6,500; also taking figures for 2-story frame for A. Johnson at Lakeside for Andrew Haugen, Two Harbors; cost \$6,000.

\*Holstead & Sullivan, architects, plans ready for bids this week for a 2-story stucco theater building, cost \$40,000 for the Dickerman Investment Co.; 60x100, on 1st av. west, between Superior and 1st st.

Four comfort stations will be built this year in four parks.

\*Wangenstein & Giliuson, architects, preparing plans for 4-story brick hotel at Solon Springs, Wis., for Duluth Brewing Co., cost \$18,000.

\*F. G. German, architect, has made preliminary sketches for a new warehouse for the Gowan-Lenning-Brown Co., cost \$200,000.

\*Vernon J. Price & Co., architects, have plans out for three homes at Lakeside for the Harper Investment Co., to cost \$15,000.

\*Holstead & Sullivan, architects, drawing plans for extension of the Rex theater, Thos. Furniss, manager.

\*Portland Cement Co. will soon resume work on their plant with 250 men; to be finished May 1, 1915.

\*W. A. Hunt, architect, has plans out for bids for proposed home of W. H. Patterson on the Greysolon road.

Emil Nelson, Star Theater; plans \$55,000 theater, West End, Holstead & Sullivan, architects; seats 1,000.

### SUPERIOR.

(Readvertised). Bids received by A. F. Chadwick, chairman board public works, until 1 p. m., April 27, for improvement by grading or regrading and paving or repaving on Tower av., with either reinforced concrete, asphalt, brick, bitulithic, creosoted blocks, or asphaltic concrete and keeping same in good repair for 5 years.

Superior Home Building Co., J. L. McMahan, secretary, U. S. Bank building, have broken ground for four modern dwellings, W. 4th st., Bay View; and contracted with other parties for six additional dwellings, from \$2,500 to \$3,750.

\*Officials of Consolidated Elevator Co. decided on 2,000,000-bushel addition to elevator "H," \$400,000.

Contract to John Diffor for paving Cuming av., rock concrete, \$30,063.

Fire damaged Superior Manufacturing Co. plant, \$10,000.

## DES MOINES, IOWA

Bert N. Mills, representative, 310 Hubbell Building.

J. W. Happ Construction Co., Cedar Rapids were awarded the contract for additional building at the Oakdale tuberculosis sanatorium, Iowa City; state board of control let contract for laundry, industrial school for boys, Eldora to C. W. Ennis of Toledo, Iowa, at \$14,900; both fireproof.

Plans will be drawn up and submitted to the factories of Des Moines by smoke inspector Clement in an effort to have smokeless furnaces installed; in the past great delays have been caused by the failure of factory managers to submit plans.

Work will start April 22, at Minburn, Iowa, on building for Dallas County Bank; stockholders: Newton H. Black of Des Moines, L. D. Henry of Beaver, E. D. Carter of Perry.

Maple Grove independent school district voted to build an \$8,000 4-room addition.

## MILWAUKEE, WIS.

Office: Hathaway Building; Telephone Main 1827.  
Mails news to Minneapolis office not later than Wednesday.

*Items marked with asterisks not in Daily Sheets.*

Badger Architects will take bids shortly on bungalow, 24x46, 26th and Hopkins; owner's name withheld; also bids on a duplex for Fred Kubbernuhs on 7th near Davis; frame, stucco, 26x46; also electric wiring on four-family flat of Tar-kow & Cohn and store at 19th st. and Fond du Lac av.; taking bids on bungalow for Robert Sclur, 22d and Keefe; frame, stucco, 26x48, tile mantels, furnace heat, asphalt shingle roof, art and plate glass, oak and cypress finish; \$5,000; preliminary plans for meat market and three-apartment building, Auer av.; brick veneer, 26x72, hot water heat; awarded contracts on alteration of Jewish home for aged: Carpenter, Meyer-Wachofsky; mason, G. Totsch; plumbing, David Stern; heat, Mueller Co.; painting, Siegel Bros.

Architect C. H. Tharinger taking bids on store and flat for Miss F. Statz at 1700 Mead st., Racine; brick and iron, 2-story and basement, 30x73, reinforced concrete floors, steel ceiling, patent store front, sidewalk lift, hot water heat, plate glass, \$15,000; awarded contracts, residence, W. F. Stark, Story Hill: Carpenter, L. Filzen; mason, Schmidt & Pelst; sheet metal, W. F. Arndt & Son; on store for Mr. Nord, 48th and Pabst: Carpenter, Henry Puls; mason, Lex



# PROPOSAL ADVERTISING FOR BIDS

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OFFICIAL ADVERTISEMENTS for proposals will be published in this department on receipt of copy with order from authorized official, building committee, architect or engineer.

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PRINTED SLIPS are furnished to officials, architects and others interested, for distribution by them, without extra charge.

PROFITABLE INVESTMENT—It has been the experience of those who have used this medium that by investing a few dollars they have saved hundreds.

COPY RECEIVED up to Friday, 10 a. m., will be published in the paper, delivered to subscribers on Saturday, but should reach the publication office, Lumber Exchange, Minneapolis, earlier in the week, when possible.

LATE NOTICES Friday morning can be transmitted by long distance telephone.

### NOTICE TO CONTRACTORS.

School, Toledo, Iowa.

J. H. Ross, Secretary of the Independent School District of Toledo, Iowa, will receive sealed bids until 2:30 o'clock P. M. on May 4, 1914, for the construction of a new school building, for the installation of a heating and ventilating system, for plumbing and electric wiring for said school building.

Plans and specifications may be obtained of Proudfoot, Bird & Rawson, Architects, Des Moines, Iowa.

### CREAMERY. Cokato, Minnesota.

The undersigned hereby gives notice that sealed proposals for the erection of a Creamery Building at Knapp, Minn., including all material and all labor except hauling, will be received by the Knapp Creamery Association, Cokato, Minn., until the hour of 2 o'clock, p. m., April 25. All bids must be in accordance with plans and specifications prepared by Richard W. Swanson, Architect, Dassel, of the manager, G. C. Celine, or at Farm-Minn., which may be seen at the office of the undersigned & Merchants' Bank, Cokato; also at office of Improvement Bulletin, Minneapolis; a certified check for 2½ per cent, payable to Knapp Creamery Association, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed.) KNAPP CREAMERY ASSO.

G. C. CELINE, Manager,  
Cokato, Minn.

(Continued on page 16.)

## PROFESSIONAL DIRECTORY

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Communicate with us before arranging your insurance.



Bros.; on duplex flat for E. T. Saveland on 23d av.; additional; sheet metal, S. Beernink; plumbing, Chas. P. Schroeder; electrical, Tellier.

Architect Leiser & Holst awarded contracts on Evangelical Lutheran Immanuel church, 14th and Lee: Excavating, A. Freming; carpenter, F. Erdman; mason, P. Schmidt; cut stone, Wm. Erdman; concrete and cement, Clos Construction Co.; plaster, H. Tewes & Co.; sheet metal, W. F. Arndt & Son; iron work, Milwaukee Structural Iron Co.; plumbing, G. Juhl; electrical, Knappe-Miller Co.; roof, Winding & Gezel-schap; painting, B. H. Weipking; awarded contracts on add. to store and office of Ernst Demer, 12th and Galena sts. Heat, Grassler & Gezel-schap; hand lift, S. Heller Elevator Co.

Architect Edward Kozick awarded contracts on racking room, firewall and tunnel at plant of Gutsch Brewing Co., Sheboygan: Mason, excavating and reinforced concrete, Wm. Guenther & Son; carpenter, Guenther, Schulz & Son; closing bids on residence for Mrs. Johanna Daglen, 49th near Washington blvd., to be frame and stucco, 2-story and basement, 26x34, concrete block foundation, hot water heat, asphalt shingle roof; also on a cottage at 929 Shepard av., to be frame, concrete foundation, 22x32, furnace heat, asphalt shingle roof.

Architect A. W. Valentine will close bids April 23 for residence, Summit av. near Linwood, for W. E. Shaw; brick veneer, 37x45, tile mantels and floors, hot water heat; awarded contracts, duplex flat for W. A. Zahn, 25th and National: Carpenter, S. H. Reinhardt; mason, R. Hoepfner; concrete and cement, C. Nielson; plaster, Wm. Gauger; tile, Wisconsin Mantle & Tile Co.; sheet metal and heat, E. T. Goese; plumbing, John Bechtel; electrical, Herman Andrae; painting, Wm. F. Karnopp.

Architect E. R. Siebert is working on plans for addition to machine shop of Logeman Bros., 32d and Burleigh; concrete block and steel, 1-story, 50x200, steam heat, traveling crane, composition roof, \$10,000; also on plans for a residence, Marietta av., near Linwood, for Aug. Bergenthal; brick veneer, 2-story, 46x65, hot water heat, tile roof and flooring; garage, reinforced concrete, 23x43; cost, \$25,000.

Architect C. W. Valentine awarded contracts on four-apartment building and garage for R. Kroll at 410 Greenfield av.: Carpenter, O. Nelson; mason, Paul Nagtegaal; plaster, F. Baumann; tile, Wisconsin Mantle & Tile Co.; sheet metal and heat, C. T. Goese; plumbing, L. Soergel; electrical, Kailing & Poehlman; painting, O. Christiansen.

John Hunholz, 2310 Vliet st., taking figures for 36-apartment building, 501 Cass st., reinforced concrete and brick, fireproof, 4-story and basement, 48x118, tile in bath rooms and kitchenettes, steam heat, composition roof, freight elevator, marble entrance and stairways, garbage incinerator and probably vacuum cleaning.

Contracts let by county board, Whitefish Bay road, sheet asphalt, one mile, White Construction Co., \$46,500; Chicago road, concrete, two miles, National Construction Co., \$33,200; Howell av., concrete, The Raulf Co., \$33,400. H. J. Kuelling, county highway commissioner.

\*Architects Leiser & Holst, Germania building; bids on a 5-story and 5-flat building for Mrs. R. Schoen at Oakland av. and N. Park Front; 2-story and basement, 40x120, tile vestibules, hot water heat, composition roof.

\*Architects Christiansen & Kemnitz, 87 Howell av., plans for residence for H. M. Lewis, Hawthorne av., South Milwaukee; frame, stucco, 28x38, furnace heat, tile mantels, probably tile dining porch and kitchen.

Contract awarded to the Wisconsin Dock & Dredge Co. of Sheboygan for steel and concrete crib for Linwood av. intake tunnel, 4,000 feet off Lake Park; 60 feet in diameter in 40 feet of water; cost, \$69,700.

\*Architect H. G. Lotter, 304 West Water st., taking bids for a residence on Highland av., for Aug. Groth, of frame, concrete and brick foundation, 28x34, tile floors and walls, hot water heat, \$6,000.

Architects Van Ryn & De Gelleke awarded general contract on Whitewater State Bank to General Construction Co., of Milwaukee; brick, 2-story and basement, 26x61, hot water heat.

\*Architects Herbst & Hufschmidt, Caswell block, figures on store building for George Baldauf at North av. and 35th st., with tile floors and show windows, marble stairway.

\*Architect A. V. Wiskosil, 692 Island av.; plans for remodeling residence, 18th st. and Cold Spring av., into two-family flat, frame, 26x59, hot water heat, tile bath.

Coddington Engineering Co. has contract for 5-story add., 64x102, steel, brick and concrete, to Hamilton Mfg. Co. plant, Two Rivers; 362 tons structural steel required.

\*Architect W. F. Neumann, 1130 26th st.; plans on a resi-

dence for J. Miller, W. 24th st., near Center; frame, brick foundation, 24x50, hot water heat, tile floors.

Architects Leenhouts & Guthrie will close bids this week on residence, 7th av. and Lake for R. M. Thayer, Wauwatosa; frame, 2-story, 22x40, hot water heat.

\*Eng. S. D. Austin, Matthews building; bids on plumbing, furnace, electrical and mill work for duplex of Austin & Warner at 39th st. and Auer.

\*Architect W. F. Neumann, 1130 26th st.; plans for a warehouse; brick; 2-story and basement, 66x210, for Hansen Storage Co., Jefferson st.

\*Eng. S. D. Austin, Matthews building; plans for four bungalows, 67th, 68th and 69th avs. between Greenfield and National, West Allis.

Northwestern Cement Co. has general contract for shop addition, 118x150, for Koehring Machine Co., Concordia av. and 32d st., \$10,000.

\*Architect A. C. Clas, Colby Abbot building, plans for new exchange building for Portage, Wis., Telephone Co.; brick, 2-story, 26x50.

\*Architect H. J. Rotier, Goldsmith building; plans for St. Joseph convent chapel at 22d and Greenfield avs.; stone and concrete, 210x127.



## WINNIPEG, MAN.



Permits: Wilson & Eggerton, apartment block, Nome st., \$50,000; F. Farquhar, two dwellings, Strathcona, \$4,400; Stuart Machinery Co., elevator, \$3,000, 764 Main st.; R. Kuckmert, dwelling, Austin st., \$2,500; Mrs. Allan, dwelling, 474 Stella av., \$2,500.

Canadian Live Stock, Ltd., will erect residences, stables, barns, pens, storage warehouses, etc., on Assiniboine; John L. Harrison, secretary treasurer; F. H. Wood, managing director, offices in Electric Railway Chambers here.

Plans have been approved for King Edward school No. 2, and permit has been issued for erection of a \$155,000 school; J. B. Mitchell, is architect and Sutherland Construction Co. are builders.

W. A. Matheson, general manager, of Lake of the Woods Milling Co., Winnipeg, is visiting Alberta and Saskatchewan to pick out site for a mill to be built this year.

Tenders are wanted to April 18, by G. P. Campbell, town clerk, Transcona, Man., for one hook and ladder wagon and ladders, complete, and one hose wagon.

Building house in St. James, Assiniboia municipality, Winnipeg suburb: Bud & Bruner, 4 dwellings, \$6,400; D. E. Campbell, 2 dwellings, cost \$1,800.

Tenders are wanted to April 10, by chairman, board of control, for supply and erection of two fire escapes at King Edward Memorial hospital.

The Watkins Medical Co. of Winona, Minn., will erect a large warehouse here, costing \$75,000; Woodman & Carey are preparing plans.

Tenders are wanted to April 30, by chairman, board of control, for manufacture and delivery of 3-phase synchronous condensers.

Beloit & Co., contractors, will erect a residence in Fort Garry municipality, for Principal Black, architectural college, \$28,000.

Contract for Cave and Basin building at Banff, Alta., awarded to Worwick Bros., general contractors, Winnipeg, \$11,000.

Permits issued: Assiniboia, A. H. Woodworth, cottage, \$2,000; F. H. Stewart & Co., two brick dwellings, cost \$9,400.

Work has commenced on remodeling the Leland hotel here, to cost \$30,000, which was recently destroyed by fire.

Work on the new Winnipeg Electric Co.'s plant at Grand Bonnet Fall has been commenced.

A. B. Derockers & Sons, erecting bakery for P. H. Lechtzier, King and Dufferin, \$10,000.

Tenders wanted to April 22, by chairman, board of control, for supply of asphalt.



## FARGO, N. D.



VICTOR H. LEEBY,  
Builders' and Traders' Exchange.

Plans now on file at Builders' and Traders' Exchange: Plumbing, heating and wiring, jail and residence, S. B. Prindle, architect, brick, 36x64, 2-story, Langdon, N. D., bids close April 14; bank, B. D. Keck, architect, brick, 25x80, 2-story, Grafton, N. D., April 25; school, Haxby & Gillespie, architects, frame, 28x42, 1-story, New Rockford, N. D., April 30, store, Haxby & Gillespie, brick, 37x95, 2-story, Campbell, Minn.,



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Minneapolis  
Minn.

## PROPOSAL ADVERTISING FOR BIDS

### SCHOOL HOUSES.

Norfolk, Neb.

Sealed proposals for the erection of two brick school houses, the Junior High School, 60x78, and the Washington School, 49x59, will be received by the School District of the City of Norfolk, Madison County, Nebraska, until Monday evening, May 4, 1914, at 8 o'clock.

Drawings and specifications will be on file on and after April 18, 1914, at the Builders' Exchange, Omaha, Neb., and at the office of Architect, Jas. C. Stitt, Norfolk, Neb.

Bids are to be addressed to and filed with M. E. Crosier, Secretary, Norfolk, Neb., and each bid must be accompanied with a certified check as provided in the specifications.

Additional sets of drawings may be obtained upon application to the Architect, and the deposit with him of a certified check for \$25.00, which reverts to the bidder upon the return of the plans in good order.

The right is reserved to reject any or all bids.

A. H. VIELE, President.

M. E. CROSIER, Secretary.

Norfolk, Neb.,

April 7, 1914.

### WATER MAINS.

White Bear, Minn.

The undersigned hereby gives notice that sealed proposals for the construction of approximately 3,650 feet of 6-inch water main and 700 feet or more of 4-inch water main, including all labor and material, will be received by the Village Council of the Village of White Bear, Minn., until the hour of 7 P. M., on the 21st day of April, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by W. P. Whitten, of White Bear, which may be seen at the office of Village Clerk on and after April 10, 1914.

Proposals to be made per lineal foot for each kind of main.

A certified check for \$100, payable to the order of Village of White Bear, must

accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed) J. E. EXTRAND,

Village Clerk,

White Bear Lake, Minn.

April 8, 1914.

### NOTICE FOR BIDS.

For the Construction of Judicial Ditch  
No. 21, Beltrami and Marshall  
Counties.

Notice is hereby given that the undersigned Auditors of Beltrami and Marshall Counties, Minnesota, will on Tuesday, April 28, 1914, at 10.00 o'clock A. M., at the office of the Auditor of Beltrami County, in the court house in the City of Bemidji, Minnesota, receive sealed bids for the construction of Judicial Ditch No. 21, located in Townships 157 and 158, Ranges 36 to 42 inclusive, Beltrami and Marshall Counties, according to the plans and specifications of the Engineer now on file in the office of the Clerk of Court of Beltrami County. Said Ditch as surveyed by the engineer is about 220 miles long, and the work is estimated as follows:

2,297,171 cubic yards of excavation at 11c.....	\$252,688.81
134 miles of clearing right-of-way .....	14,942.52
193.75 miles of road leveling at \$125.00 .....	24,218.75
33 steel bridges from 10 to 45 feet long.....	20,000.00

Total ..... \$311,850.08  
Width of base, about 175 miles of four feet, the balance from six to thirty feet.

Bids for the bridges will be received separate from the balance of the construction. Bids for the rest of the work will be received as one job, or for one or more sections of the work. Each bid must be accompanied by a certified check

on a National Bank or Trust Company for not less than 10 per cent of the total amount of the bid, which shall be forfeited if the successful bidder fails to enter into a contract, and execute a bond as provided by law. The successful bidder will be required to furnish a good and sufficient bond in the amount of the contract, conditional upon the faithful performance of said contract. No bid will be entertained that exceeds by 30 per cent the estimate of the engineer.

Bidders are requested to specify the time needed to complete the work.

The right to reject any or all bids is reserved.

The date for receiving said bids may be adjourned from time to time, until the work shall have all been taken.

G. W. WALKER,

Engineer.

J. L. GEORGE,

Auditor Beltrami County.

A. G. LUNDGREN,

Auditor, Marshall County.

### PROPOSALS FOR BIDS.

Decorating Court House, Pipestone,  
Minnesota.

Sealed bids will be received at the County Auditor's office of Pipestone County, at Pipestone, Minn., until 3 p. m., Tuesday, April 28, 1914, for decorating the Pipestone County Court House, according to plans on file at the above office, at the office of the architect, Joseph D. Livermore, 324 Paulton Block, Sioux Falls, South Dakota, and at the office of the Improvement Bulletin, 912 Lumber Exchange, Minneapolis, Minn.

Each proposal must be accompanied by a certified check for \$150.00 as evidence of good faith, said check to be made payable to the Treasurer of Pipestone County.

The Board of County Commissioners reserve the right to reject any and all bids.

TAD BAILEY,  
County Auditor.

(Continued on page 17.)



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Our figures cost nothing, and  
YOU WILL SAVE MONEY

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such as Cornices, Steel Ceilings, Skylights,  
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and Ornament Co.**  
ST. PAUL, MINN.



**NOTICE TO ROAD CONTRACTORS.**

**Elbow Lake, Minn.**

Sealed bids will be received at the County Auditor's office of Grant County, at Elbow Lake, Minn., until 10 o'clock, A. M., Thursday, April 23, 1914, for construction of jobs 1, 2 and 3, as follows:

Job No. 1: Station 0 to 242, length, 24,200 feet; 10,088 cubic yards grading; 14,256 lineal feet turnpiking; 5 12-inch corrugated metal culverts, total length 124 feet; 3 15-inch corrugated metal culverts, total length 81 feet; 8 concrete culverts, 67 cubic yards of concrete; 4-550 cubic yards of graveling; estimated cost \$6,189.

Job No. 2: Station 248 to 584; length, 33,436 feet; 3,974 cubic yards grading; 24,256 lineal feet turnpiking; 10 12-inch corrugated metal culverts, total length 257 feet; 4 concrete culverts, 28.12 cubic yards concrete; estimated cost, \$2,707.29.

Job No. 3: Station 722 to 909; length, 18,700 feet; 6,061 cubic yards grading; 8-700 lineal feet turnpiking; 6 12-inch corrugated metal culverts, total length, 154 feet; 2 15-inch corrugated metal culverts, total length 53 feet; 4 concrete culverts, 51.3 cubic yards concrete; estimated cost, \$2,793.70.

Plans and specifications may be seen at above named office, or at the office of the State Highway Commission at St. Paul, Minn.

Each proposal must be accompanied by cash or certified check for not less than 5 per cent of the amount of the bid, payable to the County Treasurer of said Grant County.

All bids must be in accordance with instructions to bidders, and upon blanks furnished by the county auditor, or by the State Highway Commission at St. Paul, Minn.

The County Board reserves the right to reject any and all bids.

Dated April 1, 1914.

O. E. WOLD, County Auditor.

**BIDS FOR THE CONSTRUCTION OF A FOUR-STORY CHEMISTRY BUILDING.**

**State University, Vermillion, South Dakota.**

Notice is hereby given, that sealed bids will be received by the Regents of Education of South Dakota, care of J. H. Julian, Secretary of the State University, Vermillion, South Dakota, up to Nine o'clock A. M., on April 22, 1914, for the construction of a Chemistry Building for the University of South Dakota, according to the plans and specifications prepared by Joseph Schwarz, Architect, of Sioux Falls, South Dakota, and approved by the State Engineer.

Plans may be seen at the Builders' Exchange, St. Paul, Minn., at the office of the Architect at Sioux Falls, S. D., at the office of J. H. Julian, Secretary of the University, at Vermillion, South Dakota, and at the Builders' Exchange, Omaha, Neb. Copies of plans may be secured of the Architect at Sioux Falls, South Dakota.

A certified check, payable to the Regents of Education, in a sum equal to Two per cent of the amount bid but not less than \$50, must accompany each bid.

The Regents of Education reserve the right to reject any and all bids.

Dated at Elk Point, S. D., this 18th day of March, 1914.

The Regents of Education,

By A. E. HITCHCOCK, President.  
Attest.

FRED W. FORD, Secretary.

**NOTICE TO ROAD CONTRACTORS.**

**Le Sueur Center, Minn.**

Sealed bids will be received at the County Auditor's office of Le Sueur County, at Le Sueur Center, Minn., until Two O'clock, May 7, 1914, for construction of State Highway, being County Job No. Two, being of a total length of 6.10 miles, consisting of the following:

16,273.80 cubic yards grading.  
14,660.00 lineal feet turnpiking.  
3,182.90 cubic yards graveling.

At a total estimated cost of \$6,278.04.

Plans and specifications may be seen at above named office or at the office of the State Highway Commission at St. Paul.

Each proposal must be accompanied by cash or certified check for not less than 5 per cent of the amount of the bid, payable to the County Treasurer of said County.

All bids must be in accordance with instructions to bidders and upon the blank forms furnished by J. W. Hruska, District Engineer, at Le Sueur Center.

The County Board reserves the right to reject any or all bids.

J. H. KAISERSATT,  
County Auditor.

**TRACTORS.**

**Albert Lea, Minn.**

Sealed bids will be received by C. E. Brainerd, County Auditor, at his office at Albert Lea, Minn., until 2 p. m., May 1, 1914, for the construction of County Ditch No. 28.

The work will require the construction of approximately 7.2 miles of open channel with approximately 238,749 cu. yds. of excavation; the construction of one concrete bulkhead, and the furnishing and laying of the following approximate amounts of tile:—236 ft., 7-in. tile; 1,508 ft., 8-in. tile; 726 ft., 9-in. tile; 1,350 ft., 10-in. tile; 3,603 ft., 12-in. tile; 3,967 ft., 14-in. tile; 4,400 ft., 16-in. tile; 2,814 ft., 18-in. tile; 950 ft., 20-in. tile; 250 ft., 24-in. tile. Estimated cost of construction \$28,508

Bids will be received for open channel and under-drain construction separately, and must be accompanied by a certified check for 10 per cent of the amount of the bid. Bidders must satisfy themselves, by personal examination at the site, of the nature of the proposed work.

**NOTICE OF LETTING CONTRACT.**

**Road Grading, Forest City, Iowa.**

**Instructions to Bidders.**

The Board of Supervisors of Winnebago County, Iowa, will meet at 11 o'clock A. M., on the 6th day of May, 1914, for the purpose of awarding the contract for the grading of approximately 10.5 miles of county road. The work is to be done according to the plans of the engineer now on file in this office and according to the specifications of the Iowa State Highway Commission. Eighty per cent of the amount of complete work will be paid at the end of each month. Each bid should be accompanied by a certified check of 10 per cent of the total amount of the bid, and the successful bidder will be required to execute a bond equivalent to 25 per cent of the amount of contract price. Bids will be accepted by the cubic yard or a specific sum per section.

The Board reserves the right to reject any and all bids. The amount of excavation for all the work is approximately 46,000 cubic yards.

The work is situated as follows:

Five miles on Forest City to Lake

**Mills County Road.**

Three miles on Scarville to Rake County Road.

Two and one-half miles on Thompson to Lake Mills County Road.

The profiles for the work may be seen at the office of the undersigned and at the office of County Engineer at Forest City, Iowa.

Dated at Forest City, Iowa, this 7th day of April A. D., 1914.

(Seal) C. K. NELSON,  
County Auditor.

**NOTICE FOR BIDS.**

**Virginia, Minn.**

Sealed bids will be received by the Board of Education of the Independent School District of Virginia, up until 2:00 P. M., April 22, 1914, for the erection of a two-story, fireproof school building. Plans and specifications can be seen at the Builders' Exchange, Minneapolis and Duluth, Minnesota, and can be obtained from the Architects, Bray & Nystrom, 1200 Fidelity Building, Duluth, Minnesota, upon payment of \$15.00. This amount to be refunded when plans and specifications are returned in good condition. Separate bids will be received for the building complete or in parts as follows:

- 1—General Construction.
- 2—Heating and Ventilating.
- 3—Electrical Work.
- 4—Plumbing.
- 5—Vacuum Cleaning System.

Each bid must be accompanied by a certified check of 5 per cent of the amount of the bid and made payable to Andrew Hawkinson, Treasurer of the Independent School District of Virginia. Said check to be forfeited if contractor fails to enter into a contract with said Board within five days from receipt of notice of acceptance of bid. All bids to be addressed to R. J. McGhee, Clerk, Virginia, Minnesota, and marked "Bid for School Building."

The Board reserves the right to reject any or all bids.

Bids are to be opened at 8:00 P. M. on April 22, 1914.

Dated April 8, 1914.

R. J. MCGHEE, Clerk.  
Board of Education.

**NOTICE TO CONTRACTORS.**

**Burlington, Iowa.**

Sealed bids for the steel only, and for the erection of steel and concrete bridges, including all labor and material, and for one car of culvert pipe will be received by Des Moines County, Iowa, until 2 p. m., April 28, 1914.

For plans and specifications, address the undersigned.

F. W. PARROTT,  
County Auditor.  
Burlington, Iowa.

**NOTICE FOR BIDS.**

**Washburn, N. D.**

Notice is hereby given that sealed bids will be received at the office of the undersigned at Washburn, North Dakota, up to 2 p. m., May 5, 1914, for furnishing 20 or more Fresno scrapers and 5 or more road plows, delivered at Washburn, N. D.

By order of the Board of County Commissioners of McLean County, North Dakota.

E. C. STOCKER,  
Auditor, McLean Co., N. D.

(Continued on page 18.)



**Employers' Liability Insurance  
Surety and Fidelity Bonds.**

## FRED L. GRAY COMPANY

THE LARGEST AGENCY OF ITS KIND  
IN THE NORTHWEST

More than 50,000 personal  
injury cases handled for  
contractors and others  
since 1892.

Security Bank Bldg.,

MINNEAPOLIS

### NOTICE TO BIDDERS.

Office of County Auditor, St. Louis County, Minnesota.

Notice is hereby given that sealed proposals will be received at the office of the County Auditor of St. Louis County, Minnesota, until 2 o'clock in the afternoon of Monday, April 27, A. D. 1914, for the construction of County Ditch Number Two (2) in said St. Louis County, involving the construction of approximately twenty-four (24) miles of main, branch and lateral ditches; the excavation of approximately two hundred five thousand five hundred (205,500) cubic yards of earth; the leveling and grading of approximately twenty-one and one-half (21½) miles of waste bank into roads; the furnishing and installing of

fifty-seven (57) corrugated galvanized iron culverts, and the construction of twenty-four (24) small steel bridges. The said work is located in Townships Fifty-two (52) North, of Range Nineteen (19) West, and Fifty-three (53) North, of Range Nineteen (19) West, near Meadowlands Station on the line of the D. M. & N. Ry. Co. and extends approximately seven (7) miles south from said station. The estimated cost of said work, not including cost of right-of-way, is approximately Forty Thousand Five Hundred Seven Dollars (\$40,507).

Proposals will be received on one or more sections or schedules of said work, or any one or more of said construction jobs, or for the entire work as one job.

Each proposal must be accompanied by certified check made payable to the

## PROPOSALS

County Auditor of St. Louis County, Minnesota, for not less than ten per cent (10%) of the amount of any bid, as a guarantee that the bidder will, if successful, promptly execute a satisfactory contract and furnish bond for the faithful performance of the work as required by the drawings and specifications for said work. Bidders submitting bids on different schedules or sections of the work will not be required to furnish a separate check with each proposal, but one check of ten per cent (10%) of the aggregate amount of bid submitted will be sufficient.

Only experienced and responsible bidders will be considered in awarding contract and evidence of such experience and responsibility will be required. The County Auditor reserves the right to reject any or all bids.

Proposals must be marked "Proposal for Constructing County Ditch Number Two in St. Louis County, Minnesota," and addressed to "O. Halden, County Auditor, Duluth, Minnesota."

All proposals must be based upon the specifications for said work which are part of the Engineer's Report in said proceedings and on file in the office of said County Auditor in the City of Duluth.

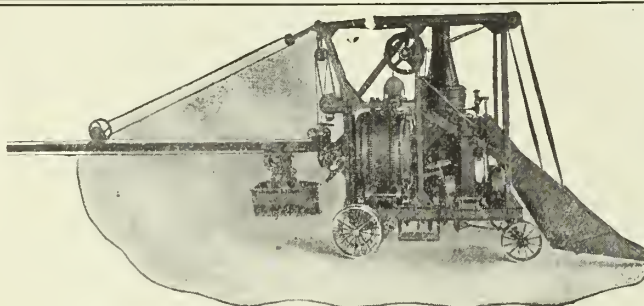
For further particulars, address the undersigned County Auditor, or E. K. Coe, Engineer in Charge, Court House, Duluth, Minnesota.

(Seal) ODIN HALDEN,

County Auditor, St. Louis County, Minnesota.

Dated April 1, 1914.

(Continued on page 19.)



## A road mixer with sterling credentials

A machine such as a road mixer must have more than just claims back of it before you'll invest. It must be backed by recommendations of unquestionable value.

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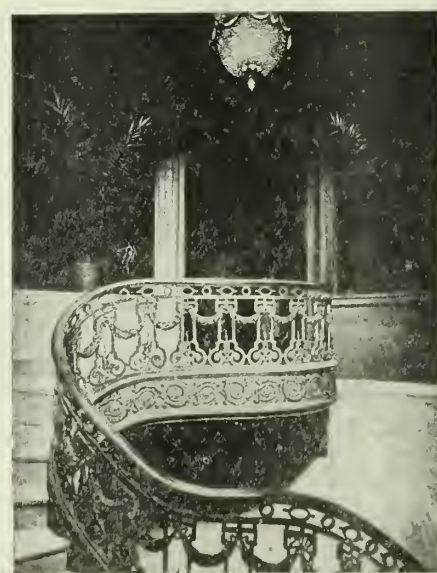
See these Machines, four different sizes, now in stock, at our Midway Warehouse.

Phone us for appointment today. N. W. Main 330;  
T. S. Annex 300. Get our New Year's Guarantee.

## Koehring Machine Co.

Milwaukee Wisconsin  
N. W. Branch Office, H. B. Jones, Dist. Mgr.,  
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## Ornamental Iron & Bronze



Stairs,  
Store  
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quises,  
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GATES, GRILLS, FENCING  
FIRE ESCAPES, BANK AND  
OFFICE FIXTURES

## FLOUR CITY ORNAMENTAL IRON WORKS MINNEAPOLIS, MINN.



**BANK AND OFFICE BUILDING.**

Grand Forks, N. D.

Sealed bids will be received by the Board of Directors of the Scandinavian American Bank and Northwestern Trust Company of Grand Forks, North Dakota, up to noon, April 29, 1914, for the erection and completion of a Bank, Store and Office Building, to be erected at Grand Forks, North Dakota.

Each bid must be accompanied by a certified check equal to 5 per cent of the amount of bid, payable to the Scandinavian American Bank, of Grand Forks, North Dakota, as a guarantee that the bidder will enter into a contract, should it be awarded to him.

Separate bids will be received on the following work:

- a. General Work, including the erection of the structural steel and hauling same from the cars.
- b. On furnishing the structural steel
- F. O. B. Grand Forks.
- c. On the Heating.
- d. On the Plumbing.
- e. On the Electric work.

All bids must be made in strict conformity with the plans and specifications prepared by Buechner & Orth, which can be seen at the office of the Northwestern Trust Company, Grand Forks, North Dakota, Builders' Exchange, St. Paul and Minneapolis and Duluth, and at the office of Buechner & Orth, Architects, 500 Shubert Building, St. Paul, Minn.

**PROPOSAL FOR SCHOOL BUILDING.**

Spiritwood, N. D.

Sealed proposals will be received for a four-room, brick school building by the Board of Directors of Spiritwood School District No. 26, Stutsman County, North Dakota, up to the hour of one o'clock P. M., May 1, 1914, at the office of E. J. Clamp, Clerk at Spiritwood, N. D.

All bids must be in strict accordance with plans and specifications prepared by Haxby & Gillespie, Architects, Fargo, N. D., and must be accompanied by a certified check for 5 per cent of the amount of the bid, made payable to Albert W. Dunwell, President, as an evidence that the bidder will enter into contract if awarded same.

Plans will be on file at the following places after April 10, 1914: At the office of the County Superintendent, Jamestown, N. D.; Builders' Exchanges, Fargo and Bismarck, N. D.

Bids will be opened at the same time and place and under like conditions for the Steam Heating and Ventilation on the above building.

The Board reserves the right to reject any or all bids.

By order of the Board.

ALBERT W. DUNWELL, President.

E. J. CLAMP, Clerk.

Haxby & Gillespie,  
Architects, Fargo, N. D.**NOTICE FOR RECEIVING PROPOSALS  
FOR THE ERECTION OF A PUBLIC SCHOOL BUILDING,  
WILMOT, S. D.**

The undersigned hereby gives notice that sealed proposals for the erection of a public school building for Wilmot, S. D., Independent School District, including all labor and material, will be received by A. Minder, Secretary, Board of Education, Wilmot, S. D., until the hour of 8 P. M., on the 20th day of April, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by A. H. Shoaltz of Watertown, S. D., which may be seen at the office of the Secretary, Wilmot, S. D., on and after

April 1, 1914, and may also be had on application to the architect, Watertown, S. D.

Sealed proposals will be received at the same time and place for the installation of the heating, ventilating and plumbing systems in the above described buildings.

A certified check for 3 per cent, payable to the order of A. Minder, Secretary, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond for the faithful performance of the contract. The right is reserved to reject any or all bids.

A. MINDER,  
Secretary Board of Education.**CREAMERY BUILDING.**

Lawton, Wis.

The undersigned hereby gives notice that sealed proposals for the erection of a Creamery Building at Lawton, Wis., approximately 5½ miles from Ellsworth, Wis., including all labor and materials, will be received by the Board of Directors of the Lawton Co-operative Butter & Cheese Co., until the hour of ten o'clock a. m., Saturday, May 2, 1914.

All bids must be in accordance with plans and specifications, prepared by O. M. Rognan, Architect, 9 Detroit Bldg., St. Paul, Minn., which may be seen at the office of said Architect or obtained by writing Edward Husfloen, Secretary of said company, Ellsworth, Wis.

The party to whom the contract is awarded will be required to give a satisfactory bond for the faithful performance of the contract.

The right is reserved to reject any or all bids.

(Signed) EDWARD HUSFLOEN,  
Secretary.**NOTICE FOR PAVING BIDS.**

Watertown, S. D.

Notice is hereby given that the City Auditor will receive for the consideration of the Board of Commissioners of the City of Watertown, South Dakota, at his office in the City Hall, until eight (8) P. M., of the fourth (4th) day of May, A. D. 1914, separate sealed proposals for paving certain streets and avenues in the City of Watertown. The total amount to be so paved is approximately 22,500 square yards. Bids will be received upon Portland cement concrete, vitrified brick, asphaltic concrete and creosote block pavement. Plans and specifications for this work are on file in the office of the City Auditor and copies of the same may be obtained from the City Engineer.

Each separate proposal shall be accompanied by a certified check for \$300.00, drawn upon a local bank and made payable to the City Treasurer of said city.

The Board of Commissioners reserve the right to reject any or all bids.

Dated April 14, 1914.

O. M. LANE,  
City Auditor,  
Watertown, S. D.**ADDITION TO SCHOOL.**

Boyd, Minn.

The undersigned hereby gives notice that sealed proposals for the erection of an addition to the school house in Dist. No. 86 in Boyd, Minn., including all labor and material, will be received by I. N. Brown, Clerk of said district, until the

hour of 3 P. M., on the 11th day of May, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by Martin Granum of Montevideo, Minn., which may be seen at the office of I. N. Brown, Clerk, on and after April 15, 1914, and may also be seen on application to Martin Granum, Architect, at Montevideo, Minn.

The work will be let in two or more contracts. One contract will include basement work and building, the other heating and ventilating plant and necessary plumbing.

A certified check for \$300.00, payable to the order of I. N. Brown, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom a contract is awarded will be required to give a satisfactory bond in the sum of \$4,000.00 for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed) I. N. BROWN,  
Clerk, Dist. No. 86,  
Lac qui Parle Co., Minn.Boyd, Minn.,  
April 14, 1914.**COTTAGES EIGHT AND NINE.**

State Asylum, Anoka.

Sealed proposals will be received by State Board of Control in their office in the State Capitol Building at St. Paul, Minn., until 2 P. M., April 27, 1914, for the erection and completion of cottages 8 and 9 at Anoka State Asylum, including the general contract work, heating and ventilating, plumbing and electrical work, in accordance with plans and specifications furnished by C. H. Johnston, Architect, 715 Capital Bank, St. Paul, Minn. Bids will be received collectively and separately. Bids to be submitted only on form of bid supplied by the Architect; no other form will be considered. Bids to be accompanied by a certified check for 4 per cent of the amount of the bid, payable to State Board of Control, which check will be returned when building contract is executed.

Copies of above plans and specifications may be seen at Builders' Exchanges St. Paul and Minneapolis, at the office of the State Board of Control as above and at the office of John Coleman, superintendent of above institution.

Extra copies of the plans and specifications may be obtained on application to the Architect on payment of cost of duplication. Successful bidders must furnish the Board with a surety bond in 75 per cent of the amount of contract. The right is reserved to accept or reject any or all bids.

**BONDS AND WATERWORKS SYSTEM.**

Stanwood, Iowa.

We want your bids on a \$9,000.00 Bond issue, also on a Waterworks System to be installed not to exceed the above amount. Bids will be received up to May 5, 1914.

WM. M. THOMSON, Clerk,  
Stanwood, Iowa.**PAVING, OSKALOOSA, IOWA.**

Sealed proposals will be received by the City of Oskaloosa, Iowa, for repaving High, First and Rock Island Avenues. Proposals to be opened April 21st, at eight o'clock P. M. For further information address T. H. Carlin, City Clerk, Oskaloosa, Iowa, or E. F. Bridges, City Engineer, Oskaloosa, Iowa.

(Continued on page 20.)



LINOFELT should be your first thought this spring in building that new home—or remodeling the old one. We know you want COMFORT above all things. Get it. Use Linofelt. Actual tests show it to be 38 times more efficient than building paper. The difference in initial cost will be made up the second winter in fuel saved; and more, you are sure of what you are after—COMFORT. We make every form of insulation preventing cold or heat from going through walls, floors or roofs. Write for illustrated booklets.

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### PROPOSAL ADVERTISING FOR BIDS

#### BOND SALE.

##### New Barnesville, Minn.

The Board of Education, Independent School District No. 60, New Barnesville, Clay County, Minnesota, will meet at Citizens State Bank in Barnesville, Minnesota, on the 25th day of April, 1914, at 7:30 P. M., for the purpose of considering bids for \$55,000.00 School Bonds of said district, to bear date September 1, 1914, bonds to be in denomination of \$1,000.00 each, to mature in 15 years without option of prior payment, rate of interest four and one-half per centum per annum, payable semi-annually. Bids will be considered for the whole amount or part of said bond issue. The Board reserves the right to reject any or all bids. Certified check for \$500.00 required with each bid. Dated at Barnesville, Minn., April 2, 1914.

E. AAMODT,  
Clerk.

#### PAVING BIDS WANTED.

##### Sioux Falls, S. D.

Sealed bids will be received by the City Auditor of the City of Sioux Falls, S. D., up to 9 o'clock A. M., of April 30, 1914, for the paving of Duluth avenue from Third street to Eighteenth street, Phillips avenue from Seventh street to Thirteenth street, and Phillips avenue from Thirteenth street to Eighteenth street, a total of approximately 53,000 square yards of pavement.

Specifications and form of proposal may be obtained from S. B. Howe, City Engineer.

The right is reserved to reject any or all bids.

WALTER C. LEYSE,  
City Auditor.

#### SEALED BIDS.

##### Bank, Shakopee, Minn.

Will be received by the First National Bank of Shakopee for the erection of a 2-story bank building up to 12:00 o'clock noon, on April 30th, 1914.

Bidders will be required to give certified check for \$500.00 with their bid. Plans and specifications may be seen at the Builders' Exchange, Minneapolis, and at the First National Bank, Shakopee, Minn., on and after Tuesday April 21st. Owner reserves the right to reject any and all bids.

FIRST NATIONAL BANK,  
Shakopee, Minn.

#### NOTICE TO BIDDERS IN HEATING, PLUMBING, ELECTRIC WIRING, WATER AND LIGHTING SYSTEMS.

Office of the County Auditor, April 2, 1914.

Sealed bids will be received at this office until Tuesday, April 28th, at ten o'clock A. M. at which time the said bids will be opened by the Board of County Commissioners of Freeborn County, for the doing of all work and labor and the furnishing of all materials for the installation of a heating plant, plumbing system, electric wiring, water and lighting system for the County Poor Farm Building of Freeborn County, Minn., located approximately four miles north of the City of Albert Lea. Plans and specifications for said separate systems are now on file at the office of the County Auditor at Albert Lea, Minn.

Separate bids only will be received for said separate systems and each bidder

must accompany his bid with a certified check for not less than ten per cent of the amount thereof.

The successful bidder shall furnish a surety bond in a sum equal to the amount of the contract awarded to him, conditioned on the faithful performance of said contract.

The Board of County Commissioners reserves the right to reject any and all bids.

By order of the County Commissioner.

(Seal.)

C. E. BRAINERD,  
County Auditor.

#### GRADING, TRACK LAYING AND BRIDGING, UNIVERSITY FARM RAILWAY.

Sealed proposals will be received at the office of G. H. Hayes, comptroller, University of Minnesota, up to 2 P. M., May 4, for grading, track laying and bridging necessary in construction of University Farm Railway.

Bids will be received separately and collectively. Certified check for 3 per cent with bids successful. Bidders to furnish bonds in 75 per cent of amount of contract. Plans and specifications can be had from G. A. Sandberg, Purchasing Officer, 101 Library building, University of Minnesota. Engineer Roe will confer with bidders wishing to go over lines in afternoon. Business phone, Tri-State, Park 6152. Residence phone Park 7534.

G. H. HAYES, Comptroller,  
University of Minnesota,  
Minneapolis, Minn.

(Continued on page 21.)

### FREE HELP WANTED ADVS.

Architectural Draftsman wanted, state experience and salary in first letter. J. W. Bradford, Architect, Fort Dodge, Iowa.

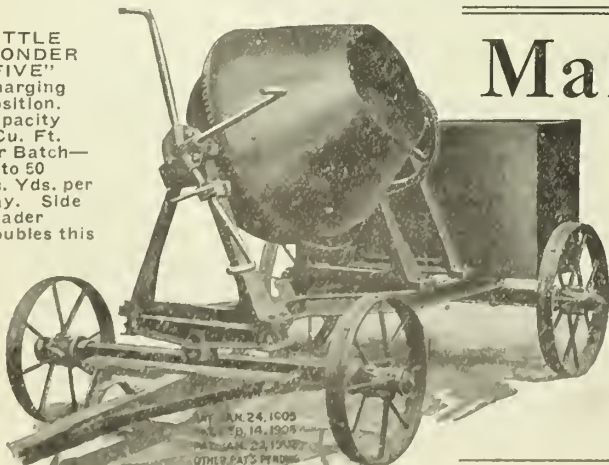
#### WANTED TO BUY.

Wanted to buy second-hand civil engineer's transit, Anderson, 416 Court block, St. Paul, Minn.

Wanted—Good concrete worker who can set floor tile, either ceramic or encaustic. Address M-I-S-D Supply Co., Sheldon, Iowa, giving experience and wages wanted.

Wanted—Draftsman at once, Hoffman & Mosse, Rochester, Minn.

LITTLE WONDER "FIVE" Charging Position. Capacity 5 Cu. Ft. per Batch—35 to 50 Cu. Yds. per Day. Side Loader Doubles this



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are known nationally and indorsed by thousands of contractors as the only logical choice. You ought to know why before you decide on a mixer—and, remember, you must be satisfied before you buy, or we pay the freight.

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220 Vinton St., Waterloo, Iowa

### HALE CONCRETE MACHINERY COMPANY, AGENTS,

1042 McKnight Bldg., Minneapolis, Minn.



**ARMORY BUILDING.**

Fairmont, Minn.

The undersigned hereby gives notice that sealed proposals for the erection of an Armory Building, for the Board of Armory Supervisors, State of Minnesota, at Fairmont, Minn., including all labor and material, will be received by Captain E. N. Chute, at his office in Fairmont, Minn., until two o'clock P. M., on the twenty-seventh day of April, 1914.

All bids must be submitted on forms furnished by the architects, in strict accordance with the plans and specifications, prepared by George Pass & Son, Architects, of Mankato, Minn., which may be seen at Captain Chute's office, at the architects' office and at the Builders' Exchange in Minneapolis. A few extra sets may be procured of the architects.

Bids will be received at same time for plumbing and for furnace heating system.

A certified check for 2 per cent of bid, payable to order of Board of Armory Supervisors, must accompany each bid, as a guaranty, the same to be returned to unsuccessful bidders immediately upon letting the contract. Satisfactory bond equal to contract price will be required of successful bidder. The right is reserved to reject any or all bids.

CAPT. E. N. CHUTE, Co. E. 2d Inf.,  
Fairmont, Minn.

**LAYING WATER PIPE.**

Cherokee, Iowa.

The undersigned hereby gives notice that sealed proposals for the laying of 5,264 feet of 6-inch cast iron water pipe, including all labor, will be received by City Council until the hour of 8 p. m., on the 21st day of April, 1914.

All bids must be in strict accordance with the plans and specifications, which may be seen at the office of City Clerk on and after April 16, 1914.

This is for doing all work, city furnishing all material; 7 fire hydrants, 8 valves and boxes.

A certified check on some Cherokee Bank for 10 per cent, payable to the order of City Treasurer must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the sum of \$1,800.00 for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed.) WM. SHARDLOW,  
City Clerk.

**THEATER.**

Sauk Center, Minnesota.

Sealed proposals will be received for a Theater, by Mr. J. A. Caughren of Sauk Center, Minnesota, until one o'clock P. M., May 2, 1914, at the Merchants' National Bank of Sauk Center, Minnesota.

All bids must be in strict accordance with the plans and specifications as prepared by Roland C. Buckley, Architect, St. Cloud, Minn., and must be accompanied by a certified check for five per cent (5%) of the amount of the bid, made payable to J. A. Caughren as evidence that the bidder will enter into contract, if awarded same.

Plans will be on file at the following places after April 18, 1914: The offices of the Architect, St. Cloud; The Builders' Exchanges of Minneapolis and St. Paul, and the Merchants' National Bank of Sauk Center.

Bids will be opened at the same time and place, under like conditions for the

steam heating, plumbing, and electric wiring. Owner reserves the right to reject any and all bids.

ROLAND C. BUCKLEY,  
Architect.

**BIDS FOR CULVERTS.**

Detroit, Minn.

Bids will be received by the county board of Becker County, Minnesota, up to May 6, 1914, at 10 o'clock A. M., for one carload or more of corrugated galvanized metal culverts. Said culverts to conform with the specifications of the Minnesota State Highway Commission.

The board reserves the right to reject any or all bids.

Dated at Detroit, Minnesota,  
April 15, 1914.

M. J. MORROWS,  
County Auditor.

**HIGH SCHOOL.**

Cedar Rapids, Iowa.

The Board of Education of Cedar Rapids, Iowa, will receive bids up to 1:00 o'clock P. M., Wednesday, May 6, 1914, for furnishing the labor and material for erecting a Vocational High School building in Cedar Rapids, according to plans and specifications made by W. J. Brown, Architect, 808-809 Security Bank building, Cedar Rapids, Iowa. A set of the plans may be seen at the office of the American Contractor, Chicago, Ill.

A deposit of \$15.00 is required for each set of plans, to be repaid when the plans and specifications are returned in good condition.

Bids to be made only on printed forms furnished by the Architect and bids not so made may be rejected. Bids to be accompanied by a certified check, payable to Cedar Rapids Board of Education, for 2 per cent of amount of bid.

April 7, 1914.

J. M. INGOLD,  
Secretary.

**CHURCH.**

Parkers Prairie, Minn.

Sealed proposals will be received by of the new Lutheran church in the Village of Parkers Prairie, Minn., will be received by the Building Committee of said church up to 8 o'clock p. m., April 28, 1914.

Plans will be on file at the State Bank of Parkers Prairie, Minn. All proposals must be accompanied by a certified check amounting to 3 per cent of the contract price and the successful bidder will be required to give a bond equal to the amount of one-half of the contract price.

The committee reserves the right to reject any and all bids.

(Signed) F. C. PROEHL,  
Treasurer.

**RE-SLATING, METAL WORK, ETC.**

State Asylum, Hastings, Minn.

Sealed proposals will be received by The State Board of Control, in their office, at the State Capitol Building, St. Paul, Minn., until 2 P. M., April 27th, for the re-slating and sheet metal work in connection with the present roof of "B" wing to the Administration Building at the Hastings State Asylum, Hastings, Minn., in accordance with specifications furnished by C. H. Johnston, Architect, 715 Capital Bank Building, St. Paul, Minn. Bids to be submitted only on form of bid supplied by the Architect; no other form will be considered. Bids to be accompanied by a certified check for 5 per cent of the amount of the bid, payable to the Minnesota State Board of

Control, which check will be returned when building contract is executed.

Copies of specifications may be seen at the office of the State Board of Control, State Capitol Building; office of the Superintendent of the Hastings Asylum, Hastings, Minn., and at the St. Paul and Minneapolis Builders' Exchanges.

Extra copies of specifications may be obtained on Application to the Architect on payment of cost of duplication. Successful bidders must furnish the Board with a surety company bond in 75 per cent of the amount of contract. The right is reserved to accept or reject any or all bids.

C. H. JOHNSTON, Architect,  
St. Paul, Minn.

**NOTICE TO BIDDERS.**Heating, Ventilation and Plumbing,  
Granada, Minn.

Sealed proposals will be received by the Board of Education, District No. 30, Martin County, Granada, Minnesota, for the complete heating and ventilation system and plumbing, for the school building. Plans may be seen at the office of the clerk; also at the office of Kirby T. Snyder, Architect, 751 Plymouth Building, Minneapolis, Minn. A certified check of 5 per cent must accompany each bid; the right reserved to reject any or all bids.

Bids will be opened at Granada at 10 o'clock, May 6, 1914.

C. C. CHAMBERLAIN, Clerk.  
KIRBY T. SNYDER, Architect.

**NOTICE OF BIDS WANTED.**

School, Carbury, N. D.

The undersigned hereby gives notice that sealed proposals for the erection of a four-room frame school building, including all labor and material, will be received by O. O. Weber, clerk of Carbury Special School District, until the hour of 7:00 P. M., on the 15th day of May, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by Ed. White of Bottineau, N. D., which may be seen at the office of O. O. Weber, Clerk, Carbury, N. D., on and after April 18, 1914, and may also be seen on application to Ed. White, Bottineau, N. D. The stone and concrete basement may be bid on separately from the frame superstructure.

A certified check for 5 per cent of bid payable to the order of J. S. Gorder, pres. C. S. S. P., must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the sum of double the amount of the contract for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed) J. S. GORDER,  
President.  
O. O. WEBER, Clerk.

**NEW BUSINESS FIRMS INCORPORATED.**

Iowa, Keokuk—Tri-State Traction Co., R. O. Marsh, president, \$50,000.

Minn., Biwabik—Range Motor Co., \$50,000, Z. C. Hinkley, president.

Minn., Crookston—Heath Investment Co., J. W. Wheeler and others.

Minn., Duluth—Barrows Realty Co., \$50,000; John Wahl.

Minn., Duluth—Whitney Bros., Stock & Co., Wm. A. Whitney.

Minn., Hibbing—Cuyuna Apex Land & Iron Co., R. Swinnerton and others.

Minn., Minneapolis—Hennepin Suburban Acres Co., capital \$50,000; S. S. Thorpe.

Minn., Pillager—Foote Bros. & Co., incorporated, capital \$10,000.



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**B**UILDERS of steel structures of all kinds, including mining and manufacturing buildings, power plants, towers and tanks, bridges and viaducts, turntables for locomotives and automobiles. roofs, trusses, girders and steel frames for business buildings.

Stock carried at Minneapolis includes a large supply of structural steel, consisting of beams, channels, angles and plates. Orders requiring quick delivery can be filled promptly.

Estimates will be gladly furnished and all inquiries will receive careful attention.

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MANUFACTURERS OF  
Expanded Metal for Concrete Reinforcement  
Expanded Metal Lath for Plastering Purposes  
Metal Studding, Furring Strips, Etc.  
for Use with Expanded Metal Lath.  
"Mahoning" Brand Expanded Metal  
In Gauges No. 7 to 12 Inclusive.  
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Agents for Minnesota and North and South Dakota  
Lumber Exchange Building, Minneapolis, Minn.

## The Fort Garry Hotel WINNPEG CANADA



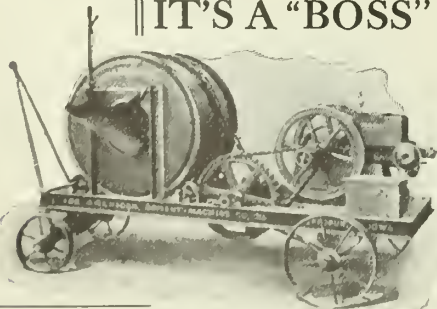
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**Minneapolis Steel & Machinery Co.** Minneapolis  
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## Davenport Machine & Foundry Co. 1618-44 West Fourth St. Davenport, Iowa

**STRUCTURAL**  
**Steel and Cast Iron** Steel and Cast Columns, Steel Girders, Roof Trusses, Stairways and Fire Escapes. Beam Channels and Angles  
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Five foot capacity BOSS mixer on steel truck with 3 h. p. gasoline engine

\$198.00

BOSS mixer, fitted with side loader and hoisting drum, \$288.00  
I also sell Austin cube mixers, Coltrin mixers, gasoline engines & cement block machines  
**NELS ERICKSON** 405 BOSTON BLOCK  
Minneapolis, - Minn.

**Sand - Lime Common Brick Face Brick** **Partition TILE Packing**

**BELT LINE BRICK COMPANY** 512 ANDRUS BUILDING  
MINNEAPOLIS, - MINN.

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MINERAL COLORS**

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the Slogan:

For Mortar, Brick, Cement, Stone, Etc.,  
Red Brown, Buff,  
Purple and Black.



Ricketson's Mineral Paint Works, Milwaukee, Wis.



April 29; school, Haxby & Gillespie, brick, 36x60, 2-story, Spiritwood, N. D., May 1; school, Ross & Son, architects, brick, 40x50, 2-story, Ardoch, N. D., May 4; school, Ross & Son, brick, 40x50, 2-story, Dahlen, N. D., May 11; store, Haxby & Gillespie, brick, 25x50, 1-story, Bemidji, Minn., soon; church, Boyd & Stewart, brick, 48x78, Addison, N. D., April 24.

Plans at Builders' & Traders' Exchange for 2-story hall and store building for York, N. D.; owners, York Building association; 46x68; will be let April 25; brick construction. One-story store building, La Moure, N. D., Haxby & Gillespie, architects; 25x60; owners La Moure State Bank; brick construction; let April 20, city hall, Lakota, N. D., 2-story, 41x57; brick construction; no date set.

## STREET AND ROAD WORK

*Notes arranged alphabetically by States.*

*Items marked with asterisks not in Daily Sheets.*

**B. C., Vancouver**—Plans prepared by city engineer for asphalt paving on Cordova st. to cost \$100,000; contract about to be let for 9 miles concrete walks.

**B. C., Victoria**—Council contemplates spending \$300,000 for paving.

**Ia., Lewistown**—Lewistown Orchards highway district will spend \$100,000 building 10 miles hard surface pavement.

**Iowa, Council Bluffs**—Lincoln highway, Pottawattamie county, cost approximately \$35,000, according to report and estimate made by Dan Sundberg, county engineer; will be considered later; J. D. Hannan, county auditor.

**Iowa, Marion**—Hearing May 15 on large amount vitrified brick paving; P. O. Clark, city clerk.

**Iowa, Waterloo**—Hearing by county board April 29, on bridges costing nearly \$10,000; J. J. Rainbow, auditor, Black Hawk county.

**\*Minn., Detroit**—Bids received by M. J. Morrrows, auditor, Becker county, until 10 a. m., May 6, for a carload of metal culverts. Officially advertised in this issue of the Improvement Bulletin.

**Minn., Duluth**—E. A. Dahl & Co., city, were low bidders at \$126,377, for state rural highway No. 4, work to be completed by April 1, 1916.

**Minn., Owatonna**—G. G. Morehouse writes city will put in 8 blocks creosote block paving on concrete foundation with 3-inch concrete curb and gutter.

**Minn., Rochester**—Reported E. Campbell, Spring Valley, build hotel, Broadway and College.

**Minn., Sleepy Eye**—Engineer C. N. Robertson reports that New Ulm proposes paving 4 blocks with creosote blocks; also that viewers are at work on state rural highway No. 54, estimated to cost \$60,000.

**S. D., Watertown**—City auditor instructed to advertise for bids for paving 11 and possibly 13 blocks; material to be asphaltic concrete, creosote blocks, vitrified brick or Portland cement.

### BIDS WANTED.

**Iowa, Atlantic**—Bids received by T. E. Nichols, city clerk, until 7:30 p. m., April 15, for grade, curb and gutter and paving on several streets; check \$2,000.

**Iowa, Audubon**—Bids received by Otto Witthauer, auditor, Audubon county, until noon, April 21, for culvert material and pipe; C. D. Forsbeck, county engineer.

**Iowa, Forest City**—Bids received by C. K. Nelson, auditor, Winnebago county, until 11 a. m., May 6, for 46,000 cubic yards grading; check 10 per cent; officially advertised this issue Improvement Bulletin.

**Iowa, Oskaloosa**—Bids received by T. H. Carlin, city clerk, until 8 p. m., April 21, for paving on High av., requiring 14,058 square yards standard paving, 1,632 square yards street railway paving, 349 square yards steam railway paving, 6,000 lineal feet combined curb and gutter, 250 lineal feet curb paving to be either 5-inch concrete base with vitrified brick block surface, or same wearing surface on present old brick and sand base; check \$1,000.

**Minn., Duluth**—Bids received by Odin Halden, county auditor, to be opened at the May meeting for grading, steel or reinforced concrete bridges, clearing, grubbing and corduroying.

**Minn., Faribault**—Bids soon to be called for on 1,000 yards, concrete paving; address city clerk.

**Minn., Hibbing**—Bids to be soon called for curb and gutter on 1st and Hibbing avs. in Alice, village engineer having been instructed to prepare plans and specifications.

**Minn., Ivanhoe**—Bids received by Karl A. Hansen, auditor, Lincoln county, until 2 p. m., April 21, for 1 road grader, 18

King drags, 2 road plows, 12 wheel scrapers, 4 slips; check 5 per cent.

**Minn., Le Sueur Center**—Bids received by J. H. Kaisersatt, auditor, Le Sueur county, until 2 p. m., May 7, for 6.10 miles state highway, estimated to cost \$6,278; check 5 per cent; officially advertised in this issue of Improvement Bulletin.

**Minn., Mankato**—Bids received by C. L. Kennedy, county auditor, 3 p. m., April 23, for furnishing corrugated culvert, f. o. b., Eagle Lake of Madison Lake; check for 5 per cent.

**Minn., Northfield**—Bids received by Frank M. Kaisersatt, auditor, Rice county, until 1 p. m., May 6, for county job No. 3, grading, turnpiking and graveling, estimated to cost \$4,113.

**Minn., Ortonville**—Bids received by A. V. Randall, auditor, Bid Stone county, until 10 a. m., April 27, for 5 jobs road construction, grading and turnpiking, totaling about \$3,500; check 5 per cent.

**Minn., St. Paul**—Bids received by Leonard C. Seamer, clerk, board public works, until 2 p. m., April 23, for grading Hatch and Grotto sts., also on various other streets; also for paving alley in block 13; also for curbing in various streets and avenues; check in each case, 10 per cent.

**Minn., Winthrop**—Bids received by S. S. Moline for grading 160 rods on state road No. 1, at 10 a. m., April 23, and for graveling 75 rods four miles south of Gibbon at 3 p. m., same day; Fred Hoppenstedt, auditor, Sibley county.

**Mont., Billings**—Bids received by C. H. Newman, chairman, 2 p. m., April 25, for furnishing solid set-up metal culverts; bids on steel culvert not desired; check for \$200.

**Mont., Billings**—Bids received by F. E. Williams, county clerk, until 11 a. m., April 25, for grading portion of two roads, bridges, culverts, etc.; check 5 per cent.

**Mont., Billings**—Bids received by board supervisors until April 25 for ingot iron galvanized culverts.

**Mont., Lewistown**—Bids received by H. L. Fitton, city clerk, until 8 p. m., April 27, for preliminary grading, etc., in paving district No. 15, paving to be of vitrified brick, asphaltic concrete, bitulithic, creosoted wood blocks, gravel bitulithic, or some other equally hard and durable substance; check 10 per cent; plans for \$5; also at same time for similar work and paving in district No. 12; plans for \$3; check same.

**Mont., Sheridan**—Hearing April 20 on 60,000 square yards paving, either wood block, granite block, brick asphalt, standard and gravel bitulithic; address city clerk.

**N. D., Beach**—Bids received by M. A. Egan, city auditor, until 8 p. m., May 4, for a 600 gallon street sprinkler; check \$25.

**N. D., Bismarck**—Bids received by T. E. Fisherty, auditor, Burleigh county, until May 6, for grading on a road running east and west through the county, for which the board has appropriated \$8,000.

**N. D., Verona**—Bids received by L. C. Kortie, township-clerk, until 2 p. m., April 25, for surveying Roland township in Ransom county, running all section and township lines, erecting cement block corners, etc.

**N. D., Wahpeton**—Bids received by S. H. Murray, city auditor, until 7 p. m., May 7, for sidewalk, curbs, gutters and crossings for ensuing year.

**N. D., Washburn**—Bids received by E. C. Stocker, auditor, McLean county, until 2 p. m., May 5, for 20 or more Fresno scrapers and 5 or more road plows f. o. b., Washburn; officially advertised this issue Improvement Bulletin.

**S. D., Mitchell**—Bids received by R. A. Zangle, auditor, Davison county, until 2 p. m., May 4, for grading and improving 6 miles of road; check 5 per cent.

**Wis., Chippewa Falls**—Bids received by P. O. Lokrantz, county commissioner, until 10 a. m., April 29, for grading about 4,500 yards of Bloomer-New Auburn and Chippewa Falls Trunk line highway; check \$100.

**Wis., Fond du Lac**—Bids received by city clerk, until 3 p. m., May 14, for paving on 7 streets.

**Wis., Mondovi**—Bids received by J. Reinhardt, county highway commissioner, until 1 p. m., April 22, for a concrete road in city of Mondovi on Mondovi and Elewa road; check \$200.

**Wis., Two Rivers**—Bids received by Conrad Baetz, chairman board public works, until 7:30 p. m., May 7, for grading, curbing and macadamizing, etc., on various streets.

**Wis., Winnebago**—Bids received by Ralph E. Smith, president state board control, Madison, Wis., until 10 a. m., May 5, for cottage at Northern hospital for insane; Claude & Starck, architects, Madison.

### CONTRACTS AWARDED.

**Iowa, Clarinda**—Contract let to J. S. McLaughlin & Son, Red Oak, Iowa, for 5 jobs concrete paving, at \$54,161; brick paving near "Q" station will be readvertised.

**Iowa, Cresco**—Contract with Garland & McIntyre, New Hampton, Iowa, for Dolarway paving at \$1.33 per square yard;



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curbing Fred Carlson, Decorah, at 22c per square feet for plain and 32c for reinforced.

**Iowa, Storm Lake**—Contract with W. H. Kerslake, city, for a large amount county road work.

**Minn., Grand Rapids**—Contract to Louis Leimer, Cloquet, for 20 miles on the Duluth-St. Vincent road at \$32,019; to Jas. Dowling, Duluth, for 17 miles between Big Fork and Alvwood, at \$23,940; to Arthur Mitchell, Bovey, for 28 miles of the Taconite-Relief road, at \$29,437; to Johnson & Beardsley, Alvwood, for 3 miles on the Marcel-Third River road, at \$2,947; to Duluth Corrugated Roofing Co., for 175 culverts at \$2,630. All bids on the road between Deep River and Northome, about 30 miles, were rejected and will be re-advertised.

**Minn., New Ulm**—Contract with E. H. Haeberle, city, for grading at \$7,853; T. D. Minium, city engineer.

**Minn., Princeton**—Contract with Walton-Conn Contracting Co., Minneapolis, for state road No. 1, at \$17,682; other bidders were Adolph Olsen, Cove, Minn., \$25,000; Thomas & Denel, Milacco, Minn., \$19,000; R. M. Cooley, engineer.

**Minn., Wheaton**—Contract with Galion Iron Works & Manufacturing Co., Galion, Iowa, for 5 Ideal steel road drags at \$26.75 each and 2 Columbia special steel drags at \$11 each, and with Ernest Terpena for 1 Phillips road drag.

**Mont., Great Falls**—Contract for corrugated metal culvert material to Fort Dodge Culvert Co., Fort Dodge, Iowa.

**N. D., Jamestown**—Contract with W. J. Curren, valley city, for cement walks at 12c per square foot, excavation, 25c cubic yard and for filling, 35c cubic yard; his bid on crossings was 27½c per square foot, with 5-year guarantee.

**S. D., McLaughlin**—Contract with J. G. Rapp, Norristown, for grading on Yellowstone trail at \$65 per mile. Bid of Minneapolis Construction Co., Minneapolis, was \$168.

**Wis., Black River Falls**—Contract with J. R. McDonald for two miles on the Decorah-Prairie road, including 5 or 6 concrete bridges, at \$21,000.

**Wis., Oshkosh**—Contract with Herman Wildhagen, city, for 3,000 feet concrete in town of Menasha; no bids on macadam.

**Wis., Portage**—Council authorized issue of \$30,000 bonds for street improvements; W. B. Washburn, city clerk.

## SEWERS

*Notes arranged alphabetically by States.*

*Items marked with asterisks not in Daily Sheets.*

**Ill., Mendota**—Plans in progress by Iowa Engineering Co., Clinton, Iowa, for extension to sewers costing \$45,000; address city clerk.

**Iowa, Mason City**—Hearing soon on lateral sewers approximating 1,698 feet 8-inch vitrified sewer pipe; J. H. McEwen, city clerk.

**Minn., Owatonna**—Council considering \$20,000 storm sewer; address city clerk.

**Minn., Sleepy Eye**—City has voted bonds in sum of \$35,000 for proposed sewer system; address C. N. Robertson, for particulars.

**Neb., Wayne**—Contract with O. S. Roberts for sewer.

**Sask., Regina**—Bids received by city commissioners until May 12, for supply of sewers.

**Wis., Merrill**—City votes April 20 on \$21,000 bond issue for sewer district No. 2; address city clerk; Peter Odegard, city engineer.

### BIDS WANTED.

**Iowa, Davenport**—Bids received by H. G. Vollmer, city engineer, until 9:30 a. m., April 20, for combined sanitary and storm sewer to be known as "Acre st. sewer extension," check \$200.

**Iowa, Sioux City**—Bids received by Paul J. Wells, city clerk, until 10 a. m., April 18, for storm water sewer in Douglas st.; check 5 per cent.

**Iowa, Sioux City**—City clerk will advertise for bids for Center st. storm sewer.

**Minn., Virginia**—Bids will be readvertised for on sewer along the Mesaba railroad, previous bids having been too high.

**Minn., Waseca**—Bids received by John Madigan, city clerk, until 8 p. m., April 21, for 450 feet sewer.

**Neb., Lincoln**—Bids received by Theo. H. Berg, city clerk, until 2 p. m., April 21, for sewers in district No. 101.

**Neb., Norfolk**—Bids received by P. F. Stafford, city clerk, until 5 p. m., April 20, for a sanitary sewer in district No. 40; check 5 per cent.

**N. D., Carrington**—G. W. Heinmiller, city engineer, is preparing plans for 6,322 lineal feet 8-inch sanitary sewer ex-

tension, 15 manholes, will advertise for bids about May 10.

**N. D., Grand Forks**—Bids received by Chas. J. Evanson, city auditor, until 4 p. m., May 4, for lateral sewer in district No. 4, requiring 390 feet 8-inch, vitrified clay pipe and 1 manhole; check \$500.

**Wis., Chippewa Falls**—Bids received by J. T. Tuohy, chairman board public works, until 2 p. m., April 27, for 991 feet 24-inch pipe sewer and 1,105 feet 18-inch pipe and accessories. Check for 5 per cent.

**Wis., Wittenberg**—Bids received by Arne Johnson, village president about June 1, for sewer and water works amounting to \$30,000.

### CONTRACTS AWARDED.

**Iowa, Burlington**—Contract let to Young & Buescher Construction Co., city, for pipe sewer work at \$1.19 lineal foot; Western Construction Co., Iowa City, segment blocks and concrete arches.

**Iowa, Cedar Rapids**—Contract let to Dearborn & Jackson for various sanitary sewers at \$1 per foot for a 15-inch sewer.

**Iowa, Keokuk**—Contract for an 8-inch sewer in alley of block 59 to the Keokuk Quarry & Construction Co.

**Minn., Carlton**—Contract with C. C. Butler & Son, Virginia, Minn., for proposed sewer work at \$5,700.

**Minn., Eveleth**—Contract with Charles C. Butler & Son, Virginia, for sewer system at this point, at about \$7,000.

**Minn., New Ulm**—Contract with Black Hawk Construction Co., Waterloo, Iowa, for sewer work at \$7,506.

## BRIDGES

*Items marked with asterisks not run in Daily Sheets.*

*Notes arranged alphabetically by States.*

**Iowa, Alton**—Resolved to construct 3 concrete and 1 pile bridge; objections heard May 1.

**Iowa, Carroll**—Henry M. Hanssen, county engineer, is preparing plans for a number of steel bridges to be erected later in the season.

**Iowa, Davenport**—County board resolved to construct 1 steel and 7 concrete bridges; objections April 20; I. E. Collins, county auditor.

**Iowa, Fort Madison**—County will build steel, 16-foot roadway, 48-foot span, concrete bridge; 20-foot roadway, 8-foot span; objections April 21; A. P. Meyer, county auditor.

**Iowa, Le Mars**—Resolved to construct 12 pile bridges; hearing April 23; Geo. M. Smith, county auditor.

**Iowa, Mason City**—Board of county commissioners resolved to construct six concrete bridges; Geo. E. Frost, county auditor; objections May 4.

**Iowa, Harlan**—County board will build bridges: steel, 16-foot roadway, 70-foot span, cost \$4,200; in Lincoln township, concrete, 12-foot span, cost \$1,260; objections April 20; E. A. Schell.

**Iowa, Sac City**—A re-inforced concrete bridge will be built on 5th st., 40 feet wide, 5-foot span; cost \$900.

**Iowa, Waterloo**—County board will build 11 bridges; objections April 23; I. J. J. Rainbow, county auditor.

**Minn., Adams**—Contract for bridge over Buffalo Creek let to Adams Bridge Co., Minneapolis.

**Minn., Duluth**—A wagon bridge costing \$35,000 will be constructed over St. Louis river at Fond du Lac, C. Haldin, county auditor.

**Minn., Eveleth**—Contract to Lawrence McCann Co., Eveleth, for concrete slab bridge, at \$1,100.

**Mont., Glasgow**—County surveyor ordered to prepare plans for bridge over Beaver Creek below mouth of Flat river, and to investigate needs of two more bridges; J. W. Dale, clerk.

**N. D., Bismarck**—State engineer prepared for Pembina county, plans for bridges and culverts; bridges from 12 to 100 feet, 18-foot roadways, concrete floors; state engineer; also made plans for Mercer and Wells counties.

**Wis., Appleton**—Council ordered city engineer to make tentative plans for Lawe st. bridge over Fox river.

**Wis., Nekoosa**—Bids for Wisconsin River bridge received as follows: N. W. Bridge & Iron Co., \$39,000, Wausau Iron Works, \$32,800; contract not awarded.

### BIDS WANTED.

**Iowa, Burlington**—Bids received by F. W. Parrott, auditor, Des Moines county, until 2 p. m., April 28, for steel and concrete bridges and culvert pipe; officially advertised this issue Improvement Bulletin.

**Iowa, Davenport**—Bids received April 21, 10 a. m., office of county auditor, for construction of reinforced concrete arch bridge, Le Claire township, bridge No. 29, Butler township, 20-foot reinforced concrete arch, bridge No. 32, Lincoln township,



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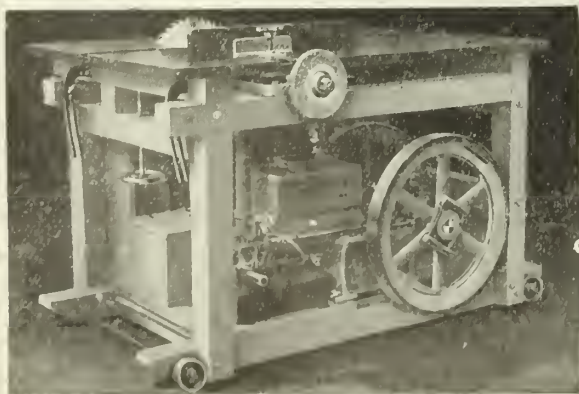
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**Iowa, Red Oak**—Bids received by Peter Ostrom, county auditor, 2 p. m., April 20, for steel to be delivered f. o. b., any station in county for year 1914: standard beam spans from 16 to 60 feet clear span, 101,000 pounds; standard pony truss spans, 40 feet to 60 feet clear span, 30,000 pounds. All material and workmanship to be Iowa Highway Commission standard specifications; check for \$250.

**Iowa, Waterloo**—Bids received by J. J. Rainbow, county auditor, 2 p. m., April 23, for furnishing 12-in. 15-in. and 18-in. corrugated and sheet metal culvert pipe for the year 1914, f. o. b. any station in county; check for \$100.

**Minn., Butterfield**—Bids received by J. J. Linscheid, clerk, 10 a. m., April 29, for two steel bridges, two box culvert bridges, and one reinforced concrete bridge; plans by state highway commission; check for 5 per cent.

**Minn., Cambridge**—Bids received by G. C. Smith, county auditor, 1 p. m., April 27, state bridge No. 1059, state road 2, two 30-foot spans, 18-foot roadway, concrete floor, concrete abutments; concrete foundations; check 5 per cent.

**Minn., Elbow Lake**—Bids received by O. E. Wold, county auditor, 10 a. m., April 23, for 6, 12-inch corrugated culverts; 2 15-inch corrugated culverts; 4 concrete culverts; check 5 per cent.

**Minn., Glencoe**—Bids received by 1:30, May 1, bridge 1278 standard reinforced concrete deck girder, reinforced concrete abutments; also beam span I-beam abutment, 30-foot span, 18-foot roadway, concrete floor; check 5 per cent.

**Minn., Ivanhoe**—Bids received by Karl A. Hansen, county auditor, 1 p. m., April 21, for building state bridge No. 1276 in town of Hendricks. (A) plans at office of state highway commission, St. Paul; (B) plans are to be submitted by respective bidders, which shall comply with specifications of the state highway commission; check for 5 per cent.

**Minn., Luverne**—Bids received by John Kelly, county auditor, 2 p. m., May 20, for furnishing material and building two bridges as follows: 1 30-foot I-beam span in Clinton township, on state road No. 5; 1 20-foot I-beam span in Luverne township, same road; check for 5 per cent.

**Minn., Marshall**—Bids received by O. M. Larson, chairman, 2 p. m., April 24, for bridge, 30-foot span, 16-foot roadway; check for 5 per cent.

**Minn., St. James**—Bids received by county auditor J. C. Jensen, 2 p. m., April 28, for building state bridge 1,254 on state road No. 5, in township of Adrain, 14-foot span, 18-foot roadway, concrete slab floor, reinforced concrete foundations; check for 5 per cent.

**Minn., St. Paul**—Bids received by L. G. Hoffman, secretary, park board, room 42, City Hall, 2 p. m., April 20, building bridges No. 3 and 4 at Phalen Park; check for 10 per cent.

**Minn., Verndale**—Bids received by I. J. Cottrell, clerk, 3 p. m., April 28, for building bridge between section 29 and 32, 50-foot span, 18-foot roadway, concrete floor on steel piling, reinforced concrete foundation; check for 5 per cent.

**Minn., Wadena**—Bids received by F. E. Gores, town clerk, 2 p. m., April 28, for bridge across Wing river, 30-foot span, 18-foot roadway, concrete floor, concrete abutments and foundation; check for 5 per cent; plans by state highway commission.

**Minn., Wadena**—Bids received by Alfred Edin, chairman, at the Thomastown town hall, 3 p. m., April 25, for building bridge across Partridge river, 40-foot span, 18-foot roadway, concrete floor and foundation; check for 5 per cent; plans by state highway commission.

#### CONTRACTS AWARDED.

**Iowa, Cedar Rapids**—Contract for county bridges let as follows: Iowa Bridge Co., Des Moines, \$9,447; Perry Jayne, \$2,536; Henry Fairchild, Walker, \$555.

**Iowa, Cresco**—Contract for 2 bridges and culverts let to N. M. Stark Bridge Co., at \$3,925 and 3 bridges to Chamber & Dosson at \$3,321; other bidders were the Clinton Bridge Co., Clinton, \$7,800; Des Moines Bridge & Iron Works, \$4,440.

**Minn., Chaska**—Contract for approaches to bridge let to Hewitt Bridge Co., Minneapolis, at \$1,795.

**Mont., Missoula**—Contract for bridge over Rattlesnake awarded to Chas. A. Huber, Seattle.

**Neb., Kearney**—Contract for bridges and repair work for year 1914 let to Omaha Structural Steel Works of Omaha.

**N. D., Devils Lake**—Contract for 6 bridges awarded to Min-

neapolis Bridge Co. at \$5,135; for 50-foot bridge to Iowa Bridge Co., \$2,592.

**N. D., Mandan**—Work will start at once on largest steel bridge in county, across Heart river here, by Fargo Bridge Co.

**N. D., Minot**—Geo. Kemper of this city, received contract to build bridge at Cando.

## WATER WORKS

*Notes arranged alphabetically by States.*

**Ida., Bancroft**—Bond election will be called soon to vote on \$7,000 bond issue to build reservoir and pipe line for water system.

**Iowa, Sioux City**—G. B. Healy will recommend to council the location of a new water supply and purchase of land needed by water department.

**Iowa, Stanton**—Election May 4, for voting on water works system; C. A. Wickstrom, mayor.

**Iowa, Valley Junction**—Iowa Engineering Co. have contract to make plans and specifications for extensions of water mains, fire plugs and standpipe; cost \$39,000.

**Minn., Alexandria**—J. H. Druar, Oscar Claussen Engineering Co., St. Paul, made report to council on new water supply; recommends more deep wells, steel curbing and equipment for old wells.

**Minn., Arlington**—W. C. Buck, engineer, Minneapolis, has been engaged to prepare plans and specifications for water works, cost \$14,000.

**Minn., Fairmont**—Architects invited to submit plans for construction of county poor house; plans considered by county board April 23, 1914; 2 o'clock p. m., H. C. Nolte, county auditor.

**Minn., Hibbing**—Work has been begun on laying water mains in Alice.

**Minn., Karlstad**—A fire hall is being considered; address city clerk.

**Minn., St. Cloud**—Water mains will be extended in four blocks.

**Minn., Wadena**—Council considering buying a new pump for water plant.

**Mont., Baker**—Estimates and plans for water works system, reservoir and dam being prepared by City Engineer Cory.

**Mont., Clyde Park**—Water bonds were defeated.

**Mont., Judith Gap**—City is planning on piping water from Crystal Springs some time this summer.

**Mont., Melstone**—C. H. Green, consulting engineer, Spokane, making surveys for water works system.

**Mont., Three Forks**—Special election April 23 on \$45,000 water works bonds; engineers, Swearingen & McCulloch Great Falls, will supervise installation of system; Mr. Robertson, mayor.

**Mont., Three Forks**—Vote will be taken April 23, on issuing bonds for \$45,000 for water works.

**Neb., Elgin**—The Alamo Engine & Construction Co., Omaha, have contract for extensions to water system.

**Neb., McCook**—Council considering buying a steam pump for water plant or contract with electric company for pumping water.

**Neb., Springview**—Water works system contemplated; C. E. Lear, interested.

**Sask., Regina**—Tenders will soon be called for material for erection of 5,000,000-gallon reservoir.

**S. D., Nisland**—Election April 21, on bonds for a water system.

**S. D., Parker**—Bonds for \$7,000 voted to extend water mains.

**S. D., Yankton**—Election April 21, to vote bonds, \$60,000 for water works; J. W. Summers, city auditor.

**Wis., Green Bay**—It was voted to buy water plant at \$750,000.

**Wis., Lake Mills**—Water mains will be extended.

**Wis., Madison**—City engineer is preparing plans for water main extensions.

**Wis., Two Rivers**—Miller Artesian Well Co. guarantee a water supply of 1,000 per minute from tubular well; cost \$15,000.

**Wis., Wittenberg**—Bids received about June 1, for construction of water works system; Arne Johnson, village president.

#### BIDS WANTED.

**Iowa, Cherokee**—Bids received April 21, 8 p. m., for laying 5,264 feet of 6-inch cast iron water pipe; check for 10 per cent; Wm. Shardlow, clerk.

**Minn., Duluth**—Bids received by C. S. Palmer, clerk, 3 p. m., April 20, for erection of steel water tower and tank; check for 10 per cent.



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**Mont., Dillon**—Bids received by Harlow Pease, city clerk, until 8 p. m., April 20, for city hall building; check for \$500.

**Neb., University Place**—Bids received by C. C. Gates, city clerk, April 18, 7:30 p. m., for furnishing deep well, pump of any type, 150 gallons per minute from 12-inch well.

**N. D., Burkey**—Bids received by Edw. E. Egan, township clerk, until 6 p. m., April 25, for township hall here; 36x60 8 feet posts; check for 5 per cent.

**N. D., Carrington**—Bids will be called for about May 10, for 10,450 lineal feet o. 6-inch water mains, 17-inch fire hydrants; G. W. Heinmiller, city engineer.

**N. D., Valley City**—Bids received by M. J. Boyd, 8 p. m., May 4, for building water main on 9th av., 886 feet; check 10 per cent.

#### CONTRACTS AWARDED.

**Mont., Plentywood**—Water works bonds carried, \$30,000.

**Mont., St. Ignatius**—Nelson Rich., Prosser, Wash., awarded contract for tunnel and earth work; Pablo canals, lateral 31-A., U. S. Reclamation Project at \$12,950.

## ☞ DRAINAGE AND IRRIGATION ☞

*Notes arranged alphabetically by States.*

**Iowa, Carroll**—Engineer on establishment drainage district 14 reported in favor; hearing May 8, Geo. A. Poepe, county auditor; engineer reported in favor of drainage district 54, hearing May 8; also drainage district 61 as petitioned, hearing May 8; also in favor extension county drain No. 26, hearing April 30.

**Iowa, Whiting**—Geo. E. Oliver engineer to make survey for district petitioned for by Fred Haitz and others.

**Minn., Ada**—Hearing 2 p. m., May 11, on judicial ditch 52, C. K. Semling, clerk, district court, Norman county.

**Minn., Bellingham**—Hearing, 3:30 p. m., April 29, on petition of J. A. Gould and others, for ditch Lac qui Parle county, A. G. Shogren, county auditor.

**Minn., Blue Earth**—H. H. Hansen appointed engineer on proposed ditch 24; Jesse L. Herring, auditor, Faribault county.

**Minn., Carlton**—Judge Fesler heard petitions on judicial ditch, Stony Brook, 30 miles and withheld decision for several days.

#### BIDS WANTED.

**Mont., Billings**—Bids on the 34,100 feet tile drains, Huntley project, U. S. reclamation, will be in April 27; address U. S. Reclamation Service, Great Falls, or Huntley.

#### CONTRACTS AWARDED.

**Minn., Slayton**—Contract awarded county ditch 30, to P. B. Jenniges, Wanda, Minn., \$4,614; contract county ditch 34 to Sorenson & Beise, Mapleton, Minn., \$44,892; bids on county ditch 35 not opened.

**Minn., Stillwater**—Contract awarded for Anoka-Washington county ditch to Ewing and Brockenbrough, Lafayette, Ind., at \$13,400; Wayne L. Ridge, Anoka, engineer, to be completed Nov. 1, 1914.

## ☞ HOTELS AND HOSPITALS ☞

*Notes arranged alphabetically by States.*

**Alta., Edmonton**—The Pendennis Hotel Co. will erect 10-story hotel, steel and reinforced concrete; cost \$250,000.

**Alta., Edmonton**—Robt. Moore, owner Hotel Elmo, will build new hotel on site present building, to cost \$300,000.

**Iowa, Keokuk**—If site can be found, county may build a tuberculosis hospital; address A. P. Meyer, auditor, Lee county.

**Minn., Graceville**—New hospital said to be assured; cost \$15,000; H. L. Day, president Commercial club.

**Minn., Hancock**—Steam heating plant, water works and toilet connections are being put into Younga hotel; also two large plate glass windows.

**Minn., Moorhead**—Dr. D. C. Darrow expects to add 16 or 18 rooms to Moorhead hospital.

**Minn., Rochester**—W. B. Richardson and Matt Frisch purchased property at Franklin and 4th sts. and will build \$100,000 hotel; 5-story, reinforced concrete, 100 or more rooms.

**Minn., Rochester**—Many changes being made to the Cook house, hot and cold water in 25 rooms, new floors in part, all wall paper removed and walls being decorated.

**Minn., St. Cloud**—Extensive improvements planned for the Grand Central hotel; walls in lobby to be redecorated.

**Minn., Thief River Falls**—H. G. Kjomme and others making estimates of cost for municipal hospital; Commercial club back of project.

**Minn., Williams**—A 26-room hotel to be built here, Paul Brushey, manager.

**Minn., Winona**—Plans for 15-room addition to Winona General Hospital being revised by Van Deusen & Stevens, architects, city; 40x60, 2-story, \$15,000; address Dr. D. B. Pritchard, 61 W. 4th st.

**Neb., Axtell**—Preliminary plans in progress by Olof Z. Cervin, architect, Rock Island, Ill., for colony group of buildings, for care of epileptics and feeble-minded near Axtell.

**Neb., Laurel**—F. P. Voter will install steam heat, lavatories and bath rooms in LeMars hotel building.

**S. D., Dell Rapids**—Board of trustees of the Hospital Co. making investigations for suitable site; H. J. Hermanson, president.

**S. D., Mitchell**—Two stories to be added to Navin hotel at cost of \$25,000; T. P. Navin, owner.

**S. D., Watertown**—Dr. H. J. Bartron has purchased Stewart residence as site for \$50,000 modern hospital; plans made, 40 x100, 3-story and basement.

**Wis., Marshfield**—Felix La Point of Juneau hotel will make improvements costing \$9,000; 3-story, brick addition, modern, adding 30 rooms.

**Wis., Rhineland**—The Advancement association considering hotel proposition of G. A. Horn.

#### BIDS WANTED.

**Iowa, Des Moines**—New bids will be asked on revised plans for Oakdale hospital, board of control having rejected previous bids because they exceeded \$50,000 limit.

**Iowa, Muscatine**—Perfected plans for new hotel submitted by Paul V. Hyland, architect, Chicago; bids to be called for about May 20.

**Iowa, Pocahontas**—Pocahontas Improvement Co. taking bids for 3-story hotel; 50x70, \$15,000; J. S. Cox, architect, Estherville, Iowa.

#### CONTRACTS AWARDED.

**Iowa, Clinton**—General contract let to J. Thompkins, city, for county isolation hospital; 30x40, 2-story and basement; heating and plumbing to Lundgren Bros., city; Dr. H. Sugg, chairman, building committee.

**Mont., Agawam**—Contract let to U. O. Ballard, city, for the \$15,000 hotel being built by Jos. Derenleau and Walter Craig.

**Mont., Chester**—Fire destroyed Windsor hotel.

**Neb., Omaha**—Contract for heating Fontenella hotel to Newbury Heating Co., Chicago, at approximately \$85,000; general contractors are Selden-Breck Construction Co.; contract includes heating system, vacuum system and garbage destructor.

## ☞ THEATRES AND HALLS ☞

*Notes arranged alphabetically by States.*

**Alta., Edmonton**—George Pearson, Warwick, England, plans erection of \$400,000 theater building; work to begin within 60 days.

**Ida., Pocatello**—F. B. McCracken, manager, Olympic theater, plans theater building to cost \$100,000.

**Ida., Wallace**—Elks are expecting to add a 3d story to their temple.

**Iowa, Battle Creek**—Plans completed by E. E. Carlson, architect, for theater, store for J. D. Warnock; 50x125, 1-story, \$15,000.

**Iowa, Coggon**—Business men have raised \$18,000 for opera house; address mayor.

**Iowa, Dubuque**—Plans being revised by Holmboe & Lafferty, architects, Clarksburg, W. Va., for club building for Elks, Fred Robinson, secretary; 50x100, 4-story, \$100,000.

**Iowa, Ida Grove**—Excavation soon for Luna theater; 50x125; J. D. Warnock, owner.

**Iowa, Massena**—Masonic lodge contemplates erection of new lodge building.

**Iowa, Newton**—Site being cleared for Odd Fellows' lodge hall; 2-story, basement, brick, cut stone, modern heating, lighting and plumbing; address lodge secretary.

**Iowa, Sioux City**—Plans for erection of a "home products" building at Interstate Live Stock Fair grounds submitted to Commercial club by Jos. Morton, secretary fair association; 36x266, with 36 exhibitors' booths.

**Minn., Eveleth**—Committee of which John Golde is chairman, appointed to consider forming stock company to take over site of old Othello theater and erect new theater building.

**Minn., Hewitt**—Owners of opera house will remodel that building and add new roof, stage, fire escapes, etc.; address mayor.

**Minn., Sauk Center**—M. C. Mauss, Moorhead, has purchased Savoy theater and will overhaul and remodel it.



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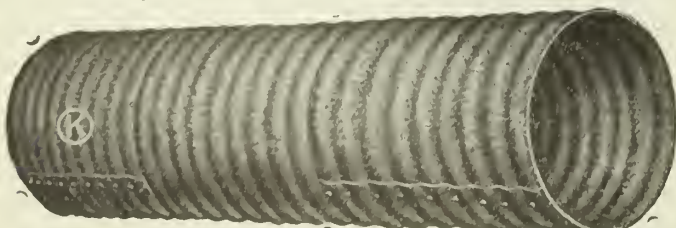
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**Minn., Shakopee**—Manager will make extensive improvements on opera house.

**Minn., Willmar**—Local bodies arranging for immediate construction of temple to cost \$20,000; site secured; W. F. Gratz, treasurer.

**Mont., Billings**—Tentative plans for Y. M. C. A. building on grounds of Polytechnic institute being made; address secretary association.

**Mont., Bozeman**—Sketches for proposed Y. M. C. A. building, prepared by Fred F. Willson & Co., accepted; absolutely modern; cost about \$65,000.

**Mont., Girard**—Steps being taken to erect public hall; address Mr. McConnell for particulars.

**Mont., Havre**—Order of Eagles, No. 166, expect to build a 3-story, lodge room, 60x120.

**Mont., Lewistown**—Plans completed for theater building, on Main st. and contract let April 20; seating capacity of 700; leased to Heineck & Trepp.

**Mont., Malta**—Contractor to start work at once remodeling Orpheum theater; decorated in white, gold and green; address manager Orpheum.

**Mont., Moore**—Plans ordered for a modern club building, local Odd Fellows lodge; 30x70, 2-story, with basement; ground floor to be an opera house.

**Neb., Ainsworth**—Odd Fellows begin at once on construction of proposed hall.

**Neb., Lincoln**—Eagles \$50,000, 3-story club house of brick and reinforced concrete; Raymond Frye, secretary.

**Neb., Plattsmouth**—E. F. Grybaky expects to build an air dome for the amusement public this summer.

**Neb., Wausau**—J. E. Baggstrom, architect, city, engaged to prepare plans for Masonic building; 50x60, 2-story, brick, basement; H. E. Johnson will build store in connection, making 75 feet front.

**Neb., Wayne**—F. A. Nance of the Crystal has plans for his new theater building and is having contractors at Randolph figure on them.

**N. D., Jamestown**—Plans completed on Masonic lodge building, work to start soon.

**N. D., Rockford**—Century lodge, No. 60, A. F. and A. M., has appointed a committee to look after preliminary plans for Masonic Temple.

**Ont., Fort William**—Committee of which A. H. Knutson is chairman, appointed by Khartoum Shrine club to make arrangements for erection of club house.

**Sask., Moose Jaw**—Work started on construction of Monarch theater; H. L. Gage, representative of Allen Theater Co. in charge.

**Sask., Regina**—D. M. Hackney will build moving picture theater, corner 11th and Rose st., immediately.

**S. D., Aberdeen**—Bijou theater to be enlarged 300 square feet, work beginning at once.

**S. D., Hartford**—Members Commercial club pushing project for new opera house to replace one burned; address secretary of club.

**S. D., Mitchell**—Dr. A. J. Dix will remodel Vermilyea annex into a motion picture theater.

**Wis., Burlington**—Plans in progress by Gilbert & Funston, architects, Robinson building, Racine, for hall, store and office building, for Kenper estate, care architect; 106x64, 2-story and basement.

**Wis., Mauston**—Plans completed about April 15 for Masonic temple, A. D. Gill, chairman, committee; A. F. Billmeyer, architect, Grand Rapids, Wis., 40x80, 1-story and basement, brick and concrete blocks, brick facing, two furnaces, steel ceiling, security roofing, syenite and plate glass.

**Wis., Neenah**—The Eagles expect to put up new building; committee appointed to select site.

**Wis., Rice Lake**—Odd Fellows will erect 2-story lodge and office building on Main st.

**Wis., Two Rivers**—New balcony to be added to Empire theater, steel, covered with wood and metal.

#### BIDS WANTED.

**Iowa, Clinton**—Bids received by J. Morrell & Son, architects, 410 Howes building, city, until April 28, for moving picture theater and store building for Donlon Bros., 647 4th av.; 100x110, 2-story and basement, \$60,000.

**Iowa, Cresco**—Bids for plastering, painting and electric work being taken on theater building, by Monarch Theater Construction & Supply Co., Shubert building, St. Paul.

**Iowa, Fort Dodge**—Bids expected to be opened in about 20 days for Masonic temple, sketches having been approved; 60x100, 2-story and basement, brick, stone and steel; cost \$35,000.

**Minn., Bemidji**—Bids to be received for site for the new home for the Elks; Jas. L. George, exalted ruler.

**Minn., Benson**—Plans for Masonic temple, J. E. Nason, architect, Corn Exchange, Minneapolis, out April 24; figures taken

here; 2-story, brick, steam heat, modern, auditorium in basement, telephone system, marquis, skylights; \$30,000.

**Minn., Puposky**—Bids received by Geo. M. Deming, town clerk, until 3 p. m., May 1, for town hall in Durand township.

**\*Minn., Sauk Center**—Bids received by J. A. Caughren, city, until 1 p. m., May 2, for theater building; check for 5 per cent. Officially advertised in this issue of the Improvement Bulletin.

**Mont., Great Falls**—Bids soon taken for construction of Masonic temple; excavation contract and sewer let to Nilson Smith & Co.

**Ont., Kenora**—G. C. Hay, clerk, wants plans for erection of brick or stone library building.

**S. D., Watertown**—Bids being taken for Masonic temple by Kampeska lodge, 50x100, 2-story and basement, \$50,000.

**Wis., Beloit**—Shattuck & Hussey, architects, 18 S. La Salle st., Chicago, will take bids about April 20, on \$75,000 Y. M. C. A. building; J. A. Steiner, secretary.

**Wis., Elkhorn**—Bids received by Grant D. Harrington, secretary of committee, until April 27, for Masonic temple; plans by Architect Law, Madison, Wis.; 36x75, 2-story and basement, faced with drak re dvitrified brick.

#### CONTRACTS AWARDED.

**Alta., Edmonton**—Magoon & MacDonald, architects, completed plans for a 3-story building for clubs and offices, to cost \$50,000; contract to Bell, Auld & Houston.

**Iowa, Marshalltown**—Contract to Laswell & Burgher Bros., Hannibal, Mo., for Y. M. C. A. building; 60x153, 4-story and basement, \$75,000; Shattuck & Hussey, architects, 19 S. La Salle st., Chicago; H. E. Wilson, secretary, city.

**Minn., Wells**—General contract to Zens & Prinz, 2711 Colfax av. N., Minneapolis, for Knights of Columbus hall, \$40,000; heating and plumbing to Candee & Osdoba, and wiring to J. A. Culshaw, both city.

**Mont., Chinook**—Contract to Maurice Montgomery for a \$10,000 building on Main st. to be used for a skating rink, bowling alley and gymnasium.

**Neb., Germantown**—R. O. Slake contract for \$6,500 theater building and hall; pressed brick, arch roof, stage, 20x30.

**S. D., Iroquois**—Contract let to B. Stevens, city, for \$5,000 picture theater built by Albert Gaudian; F. C. Kuehn, architect, city; 25x70, 1-story, brick, concrete foundation, pressed and common brick, Bedford stone, composition roofing, stone cornice, plate and d. s., glass, hard wall plaster, maple flooring, yellow pine interior finish.

**Wis., Appleton**—Contract for heating and plumbing, Y. M. C. A. building, let to W. S. Patterson & Co., at \$15,829, the last of the contracts.

## PUBLIC BUILDINGS

*Notes arranged alphabetically by States.*

**Alta., Edmonton**—City Architect Jeffers preparing plans for municipally owned swimming pool.

**Iowa, Ames**—Plans for brick fireproof women's dormitory to cost \$55,000 and abattoir to cost \$20,000, prepared by Proudfoot, Bird & Rawson, architects, Des Moines; also plans for plant propagation building.

**Iowa, Boone**—Plans for court house accepted from Fall River Construction Co., Louisville, Ky.; 100x110, 4-story.

**Iowa, Cedar Falls**—Plans for brick fireproof women's dormitory at state teachers' college, to cost \$100,000, prepared by Proudfoot, Bird & Rawson, for state board of control, Des Moines.

**Iowa, Iowa City**—Plans for brick fireproof gymnasium to cost \$125,000, and for nurses' home to cost \$50,000, for the state university of Iowa, being prepared by Proudfoot, Bird & Rawson, architects, Des Moines, for state board of control, Des Moines.

**Iowa, Pilot Mound**—City hall buildings proposed; cost \$5,000; address city clerk.

**Minn., Breckenridge**—C. E. Bell, architect, Security building, Minneapolis, has prepared drawings for proposed city hall; it is believed bids will be asked for about June 15.

**Minn., Henning**—Bids for city hall to cost \$6,000 opened recently.

**Minn., Little Falls**—Plans for proposed county jail, prepared by Alden & Harris, Commerce building, St. Paul, Minn., approved by county commissioners; action postponed until next meeting.

**Minn., Ortonville**—Plans for library have been sent to the Carnegie corporation in New York for approval; plans call for building, 64x32, stucco on hollow tile, red roof.

**Minn., Thief River Falls**—Plans for proposed library drawn



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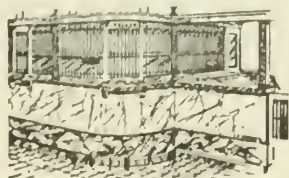
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by J. C. Lutz, architect, 40x60, brick, full basement; address secretary library board.

**Mont., Forsyth**—Council will call special election to vote \$20,000 for city hall and jail; address city clerk.

**Neb., Burwell**—Plans being prepared for \$50,000 library; address city clerk.

**Neb., Wynot**—Decided to build a town jail; address town clerk.

**N. D., Fargo**—City market proposition carried by good majority; address city clerk.

**N. D., Mandan**—An additional \$11,000 appropriated by National house for federal building here.

**N. D., Pingree**—Commercial club planning town hall and fire house; G. M. Smith, chairman committee.

**Sask., Humboldt**—Plans being prepared for combined court house and land titles office; address the reeve.

**S. D., Aberdeen**—A remodeling of the U. S. postoffice building under consideration, to cost perhaps \$25,000; building has been inspected by Herbert Coens, from the office of the federal architect, Washington, D. C.

**S. D., Redfield**—H. E. Derr, state engineer, has been in the city on business connected with erection of new building and equipment of the state school and home for feeble-minded.

**Wash., Seattle**—Plans for King's county court house must be made to conform to \$950,000 voted; A. Warren Gould, architect, will modify if possible.

#### BIDS WANTED.

**Ida., Boise**—Bids received by trustees of Carnegie library, until 2 p. m., April 18, for fireproof addition to Carnegie library building; separate bids on plumbing and heating.

**Ida., New Plymouth**—Bids received by L. Wachter, until April 27, for city hall and jail building.

**Minn., Chatfield**—Plans ready about May 11, for figures on the city library, care Dr. W. A. Moore, city, 34x56, 1-story and basement, \$10,000; Claude & Starck, architects, Badger Annex, Madison, Wis.

**\*Minn., Hastings**—Bids received by C. H. Johnston, architect, Capitol building, St. Paul, until 2 p. m., April 27, for the re-slatting and sheet metal work on administration building at state asylum; check for 5 per cent. Officially advertised in this issue of the Improvement Bulletin.

**Minn., Pipestone**—Bids received by Tad Bailey, auditor Pipestone county, until 3 p. m., April 28, for decorating court house; Jos. D. Livermore, architect, Paulton block, Sioux Falls, S. D.

**Mont., Billings**—Bids received by F. E. Williams, clerk of county board, until 10 a. m., April 25, for iron fence, board stockade fence and frame barn.

**Mont., Helena**—Bids received by A. J. Breitenstein, secretary Montana state fair, about May 1, for 1-story, brick fire proof or cement Horticultural building at state fair, to cost \$25,000; G. H. Carsey, architect, Helena.

**Mont., Wilsall**—Bids are being taken by county commissioners, at Livingston, Park county, Mont., for reinforced concrete jail building; roof and floors, concrete; C. H. Turk, architect, Livingston, Mont.

**Neb., Crete**—Bids received by W. S. Collett, chairman, building committee, Carnegie library, until May 9, for Carnegie library building; check \$500; separate bids for plumbing, \$200 check, and also for heating \$200 check.

**N. D., Cooperstown**—Bids received by H. S. Rearick, auditor Griggs county, until 1:30 p. m., May 11, for fireproof vault in court house; Hancock Bros., architects, Fargo, N. D.; check \$200.

**N. D., Grand Forks**—Bids received by Hans Anderson, auditor Grand Forks county, until 10 a. m., May 7, for decoration of new county house; plans by Buechner & Orth, architects, Shubert building, St. Paul; check 5 per cent.

**N. D., Lakota**—Bids received by Edwin F. Hughes, city auditor, until May 2, for a 2-story brick city hall and jail; plans with city auditor; check \$100.

**Mont., Hamilton**—Contract with E. Erickson, city, for exhibit hall, fair grounds at \$4,265.

**Sask., Prince Albert**—Bids received by Duncan C. Scott, deputy superintendent general of Indian Affairs, Ottawa, Canada, for erection of farm building at Sandy Bake Reserve, Carlton Agency, Sask.

**Sask., Swift Current**—Bids will soon be asked for erection of combined court house and land titles office; G. D. Arnold, city clerk.

**S. D., Vermillion**—Bids received by secretary of state university, until April 22, for chemistry building; Jos. Schwartz, architect, Sioux Falls, S. D.

#### CONTRACTS AWARDED.

**Minn., Fairmont**—Contract with J. B. Nelson & Co., mankato, for work on the court house, reinforcing, etc., to cost from \$7,000 to \$10,000.

**Minn., Fort Snelling**—Contract with Cameron & Co., St. Paul, Minn., for store house at \$4,752, hay shed at \$3,620.

**Minn., Waconia**—Contract for town hall in Laketown let to Chas. Klatt and Frank Lundsten; 26x40, cement blocks, cement floor, metal roof; cost \$1,200.

**Mont., Roundup**—Contract with Pauly Jail Building Co. for cells for county jail at \$410.

**Neb., Broken Bow**—Contract to Jas. Osborne, city, for jail building, at \$9,100; heating and plumbing to P. F. Meyers, city, at \$1,590; brick.

**Wis., Oshkosh**—Contract with Kilbey & Son, city, for painting interior side walls of county home at \$393; county to furnish the material, to be purchased by supervisor J. J. Nigl.

**Wis., Waukesha**—Contract with Modern Steel Structural Co. for one of the big features of the Panama-Pacific Exposition at San Francisco; steel; cost \$50,000.

## SCHOOLS

*Notes arranged alphabetically by States.*

**Alta., Edmonton**—The building committee of Robertson Presbyterian college have decided to erect a theological building on grounds of university; cost \$150,000.

**Alta., Edmonton**—School board is looking for two sites on which to construct two schools; cost, \$50,000.

**Alta., Edmonton**—Members of school board planning to erect an administration building; cost \$250,000, this year; located on College av.

**Alta., Red Cliffe**—School board decided on three schools, brick; cost \$12,000.

**Iowa, Britt**—New structure will replace old ward school.

**Iowa, Burlington**—Ground will be broken soon for first group of buildings Pullman free school, manual training at Pullman; plans completed except small details; C. F. Johnson, architect, modern; Dr. Laenas Gifford, Wells, principal.

**Iowa, Cantrill**—Board has engaged Omaha architect for new school.

**Iowa, Council Bluffs**—Bids advertised for soon for school in district 1, Hazel Dell township, \$1,200; Mr. Puryear, superintendent.

**Iowa, Cherokee**—School district will spend about \$40,000, add. to school houses; Wm. Shardlow.

**Iowa, Des Moines**—Independent school district of Diagonal in Ringgold Co., received bids till April 15 for brick school building, \$18,000; S. R. Overholser, secretary.

**Iowa, Iowa City**—State board of education authorized gymnasium, cost \$125,000; nurses' home, \$50,000, for state university.

**Iowa, Kalona**—Petition presented to school board for an additional school, cost \$12,000.

**Iowa, Lisbon**—School board has secured plans for enlarging, beautifying and generally improving school building.

**Iowa, Livermore**—Excavation begun for school.

**Iowa, New Hampton**—Four Chickasaw county school districts voted for consolidated school.

**Iowa, Storm Lake**—Contract awarded to Park Bros., for new school in Lohrville; cost \$30,000; plumbing to L. S. Dlugosch.

**Iowa, Troy**—A \$17,000 consolidated school will be built at once.

**Minn., Boyd**—Addition to school house according to plans submitted by Martin Granum of Montevideo, Minn.; clerk, I. N. Brown, Boyd, Minn.; plans approved by state commissioner.

**Minn., Chisago County**—District No. 48, 1-room frame school building; clerk, John Hokanson, R. R. X, Rox 14, Harris, Minn.; plans approved by state commissioner.

**Minn., Faribault**—A parochial school for church of Immaculate Conception proposed, Rev. J. J. Plevain, pastor.

**Minn., Pequot**—All bids rejected on school.

**Minn., Soudan**—Bray & Nystrom, architects, Duluth, Minn., prepared plans for a 2-story school, frame, 34x63, for school district No. 9, St. Louis county; cost \$13,952; general contract let to A. C. Willents & Sons, Holyoke, Minn.; tile fireproofing, hollow and common brick, hot water heat, sheet metal ceiling, tin, wood and shingle roof, patent plaster, pine finish.

**Minn., Steele County**—District No. 29, 1-room frame school building; clerk, John Wilker, R. R. 1, Owatanna, Minn.; plans approved by state commissioner.

**Minn., Stephen**—Vote carried for school; cost, \$12,000, modern, district 16.

**Minn., Watertown**—District No. 18, 1-room brick school house with basement; superintendent F. L. Williams, Watertown, Minn.; plans approved by state commissioner.



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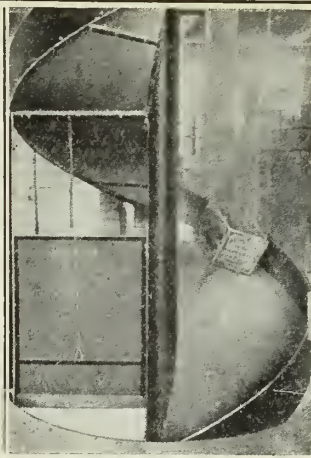
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**Mont., Comanche**—Plans drawn by G. McAllister, architect, Billings, for school.

**Mont., Darrel**—Bids opened April 11; school; Sam Smedging, clerk, district No. 33.

**Neb., Battle Creek**—A \$12,000 addition will be built on high school.

**Neb., Hayes Center**—Directors district No. 72, discussing plans for a new school.

**Neb., Superior, (Hillsdale Item)**—Mr. Yung and Mr. Hant-horn are circulating petition for a consolidated school in Cadams.

**Neb., Columbus**—St. Anthony's church petitioned for a permit to erect 1-story frame school, cost \$1,000.

**N. D., Crosby**—School to be erected, modern, 2-story, brick and stone construction, 10 rooms, offices; cost \$20,000.

**N. D., Dahlen**—Plans on file for a 4-room school at Grand Forks' Builders' & Traders' Exchange; J. W. Ross & Son, architects, May 11.

**N. D., Enderlin**—John Chubb, architect, Chicago, plans for school accepted; bids asked for soon, 2-story, 90x60, 10 grade rooms, assembly room, general laboratory, manual training, cooking, sewing rooms, ventilation, fireproof.

**S. D., Gayville**—F. C. W. Kuehn, architect, Huron, S. D., prepared plans for a brick school, 2-story, 50x60; cost \$15,000; lime cut stone, common brick and pressed, wood shingle roof, plaster, paint, varnish, glass, maple floors, yellow pine finish; bids taken by clerk, until April 23, address Peter Conklin, clerk school board.

**S. D., Pierre**—J. W. McEwen will superintend construction of new building at local Indian school.

**S. D., Sioux Falls**—Plans have been completed for a memorial building to be erected on campus of All Saints' school for girls, in memory of Rt. Rev. Wm. Hare, cost, \$70,000, 3-story, fireproof, unit plan, 58x120, Sioux Falls jasper and terra cotta trim, 12 class rooms, library, assembly room, accessory room.

**Wis., Arcadia**—St. Stanislaus congregation will build a parochial school and sisters' dwelling.

**Wis., Eau Claire**—All plans for Eau Claire Normal school have been completed by architects Van Ryn & De Gelleke, Milwaukee; contract for concrete work to be let to Hoepfner-Bartlett; fireproof, 238x165, two courses of brick with concrete lining, modern throughout, appropriation by state legislature of \$225,000; Hon. Emmet Horan, chairman committee.

**\*Wis., Grand Rapids**—Board of education plans a school house.

**Wis., Ladysmith**—\$65,000 school bonds voted.

**Wis., Whitewater**—Work starts July 1, on Normal's \$50,000 gymnasium.

#### BIDS WANTED.

**\*Minn., Granada**—Bids received by C. C. Chamberlain, clerk, until 10 a. m., May 6, for heating and ventilation for school; check for 5 per cent. Officially advertised in this issue of the Improvement Bulletin.

**Minn., Roseau**—Bids received until April 14, 2 p. m., for a school, district No. 56, Roseau county and No. 105, Marshall county, joint districts, Auto. Hodik, clerk, district No. 56 and 105.

**Minn., Vining**—Four-room, modern school will be built here.

**Minn., Virginia**—Bids received by R. J. McGhee, clerk, board education, until 2 p. m., April 22, for 2-story, fireproof school; separate bids on heating and ventilating, electrical, plumbing, vacuum cleaning system; check for 5 per cent; officially advertised this issue Improvement Bulletin.

**Minn., Virginia**—New bids will be opened April 27, for \$60,000 school; plans by Cary Nystrom.

**Minn., Worthington**—Bids received until April 17, 1 p. m., for school district 112, Nobles county; plans at office of superintendent; check 5 per cent; E. M. Berry, clerk, Carl Toren, director.

**Mont., Harlowtown**—Bids received until May 1, for building school house in district No. 29; plans with A. J. Dreyer, Harlowtown. Carl B. Schmelling, clerk.

**Mont., Havre**—Bids received until May 1, for two frame schools one in district No. 25, Hill county, architect F. E. Bossout, or Cottonwood P. O., R. E. Hanson, clerk, Cottonwood.

**Neb., Exeter**—Bids received until April 27, 3 p. m., for a 2-story school, brick; check 5 per cent; F. W. Clarke, architect, Omaha; bids received at same time and place for heating, plumbing and ventilating system; T. S. Blouch, secretary; cost \$40,000.

**N. D., Cathay**—Bids being received for school district of Fairville, Wells county, by board of education; check \$25; Andrew Stokes, president, Fairville; plans with president.

**N. D., Oakdale**—Bids received until April 22, for school and barn to be built on west line of section 22; plans at State Bank, Manning, N. D., Dunn county; Nelson Swager, clerk.

**Sask., Assiniboia**—Bids received until April 27, by J. B. Smith, secretary-treasurer, Assiniboia school board, for a school, brick.

**S. D., Pierpont**—Bids received until April 20, for a school in district 205, independent township. Plans with S. O. Sorenson, Roslyn postoffice, S. D., R. 1, Box 55.

**S. D., Sioux Falls**—Bids received until May 21 for a 3-story and basement, fireproof school; plans at Builders' Exchange, Minneapolis, Minn., or owner, Bishop Geo. Biller, Jr.; Robert A. Perkins, architect.

**Wis., Ashland**—Bids received until April 18, 2 p. m., for a 1-story brick school, (White River road), district 1, Henry Wildhagen, architect, Ashland, C. E. Blum, clerk.

#### CONTRACTS AWARDED.

**Iowa, Early**—Contract awarded to Park Bros., for parochial Catholic school; plumbing to L. S. Dlugosch.

**Iowa, Hampton**—Contract for school awarded to Leefers & Sons.

**Iowa, Rowan**—Contract awarded to Payette Construction Co. of Sioux City, for a consolidated school building, at \$24,787; stone and brick, 2-story, 64x80, with addition for heating plant.

**Minn., La Porte**—Contract to Mr. Schutt, for school, at \$7,400; heating and plumbing bids too high; plans changed and new bids asked.

**Mont., Hilger**—Contract awarded to Cosby McDonald Co. at \$1,125, for new Christian school, work begun.

**N. D., Cooperstown**—Contract awarded to John Schlanser & Co., Fargo, for school building, at \$12,750; heating and ventilating to Champlin & Nanson, Fargo, at \$1,924.

**Neb., Arlington**—A. G. Ludwig has contract for a \$25,000 school house at Tobias.

**Neb., Heartwell**—Contract for school let to C. G. Johnson of Lincoln.

**Wis., Durand**—Contract to Wm. W. Bartlett, of Eau Claire, for school, in Averill district; 34x40; cost \$4,400, modern, cut stone, solid brick, hot air heat.

**Wis., Plymouth**—Contract awarded to C. B. Schultz, Plymouth, for school in joint district No. 20, at \$2,435; R. O. Heise, Plymouth, at \$2,561; C. B. Schultz, architect, Plymouth.

## MILLS AND FACTORIES

*Notes arranged alphabetically by States.*

**Alta., Medicine Hat**—The Maple Leaf Milling Co. and the Ontario & Manitoba mills will both start building operations in May, on their new mills; cost each \$1,000,000.

**Alta., Medicine Hat**—Work will be resumed on the Saskatchewan Bridge & Iron Co.'s \$100,000 factory, soon.

**Alta., Medicine Hat**—John Tabor of J. H. Tabor Candy Manufacturing Co. announces that construction work will commence on company's factory at once; cost \$25,000.

**Iowa, Cedar Falls**—Plans by architects, Mortimer & Cleveland, Waterloo, Iowa, for a 1-story factory, for the Iowa Gate Co., 100x600; cost \$45,000, brick, steam heat, composition roof, glass; bids closed April 10; taken by architect.

**Iowa, Des Moines**—The Nebraska Blau-gas Co., Omaha, Neb. will build a plant here; cost about \$75,000.

**Iowa, Des Moines**—A 4-story addition will be built by Schmitt, Henry Manufacturing Co., \$35,000; Proudfoot, Bird & Rawson, architects, Des Moines, Iowa.

**Iowa, Dyersville**—Dyersville Steel Post Co. will build factory here.

**Iowa, Osage**—M. J. and A. J. Fox have begun modern feed mill.

**Minn., Hastings**—Plant of the Brandt Manufacturing Co., destroyed by fire, loss \$60,000; insured; H. D. Hudson, M. S. Thruher and W. T. King, of Minneapolis, owners.

**Minn., Hastings**—Brandt factory, will be rebuilt at once; H. D. Hudson, M. S. Thruher and W. T. King, Minneapolis, owners.

**Minn., New Ulm**—John Kennedy of Virginia, Minn., has made application for a gas franchise, he proposes to build a gas plant in that city, estimated cost \$100,000.

**Minn., Puopore**—Nygaard's flour mill at Osage wrecked by flood; loss \$15,000.

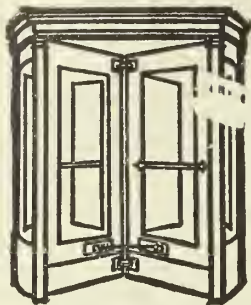
**Minn., Wabasso**—Roller mill burned.

**Mont., Belgrade**—Senator J. C. McCarthy of Bozeman, secretary, of the Gibson Sectional Culvert Co., is making plans for a factory here; Jno. Gibson, president; W. J. Crismas, vice president.

**Minn., Jackson**—Fire destroyed flour mill, Jackson Milling Co., loss \$20,000, insured \$10,000.



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**Minn., Mankato**—A proposition is being discussed for a factory here by Carl Whippermann, North Mankato.

**Mont., Great Falls**—W. E. Stephens, fiscal agent for Farmers Plow Co. contemplates establishing a plow factory here.

**Mont., Missoula**—Work has commenced on new creamery building; modern throughout.

**Mont., Red Lodge**—Proposition is being discussed for a flour mill here.

**Mont., York**—A \$175,000 mill will be built here, to replace old one; a cyanide mill will also be built.

**Neb., Greenwood**—The Creamery Co. will build a modern creamery.

**Neb., Norfolk**—W. H. Beckhauer & Son have excavation started for new dry cleaning plant for Norfolk Dye Works, modern.

**Neb., Norfolk**—Kenny-Colwell Machine Co. plans building.

**Neb., Wahoo**—Hudec Bros. began cement block ice factory.

**N. D., Grand Forks**—Russell-Miller Milling Co. flouring mill will be completely dismantled and new modern structure will be erected, 5-story and basement; P. J. Kavanaugh, manager.

**N. D., Westby**—G. A. Linf of Willmar, Minn., is planning on putting in a cement factory here.

**S. D., Bismarck**—About \$5,000 has been subscribed toward a Farmers' Union flour mill at Bismarck.

**S. D., Sturgis**—The Lamphere-Hinrichs mill at Rapid City recently burned will be rebuilt by a new company.

**S. D., Watertown**—Mr. Carlston, representing Dawson Power Co., of Minneapolis, was in city looking for a site to build factory.

**Wis., Antigo**—Vincent Wolf will build interior finishing factory.

**Wis., Baraboo**—The Baraboo Commercial association will erect a linen factory, reinforced concrete basement, tile walls, foundation sufficient to carry high building, only 1-story at present; Geo. McArthur & Son, owners.

**Wis., Chippewa Falls**—Plant may be built by the Filtz & Sons, box and veneer, to replace Northwood Furniture Co., concrete, 1-story, 50x150; a 2-story, 50x150; dry room, 30x60, engine room, 34x36.

**Wis., Dayton**—The old grist mill burned; owned by John Luchsinger.

**Wis., Green Bay**—Contract awarded, for enlarging of the Pure Milk Co. plant; modern throughout.

**Wis., Green Bay**—An automobile company is planning to build a cyclecar factory here, incorporated \$25,000; G. H. Salter, chairman.

**Wis., Jefferson**—Sheboygan Evaporated Milk Co. will enlarge its plant, and Owen Yarn Mills will build addition.

**Wis., Kaukauna**—\$50,000 improvements will be made on plant of Union Bag & Paper Co., Kaukauna.

**Wis., La Crosse**—Gund Manufacturing Co., will build a plant \$12,000; C. R. Pieper, manager.

**Wis., Lima Center**—Six Corners Producers' association, incorporated: will open a factory here.

**Wis., Lodi**—The Valecia Condensed Milk Co. have in course of construction a chain of plants, one to be located here; also at Reedsburg and Hillsboro.

**Wis., Mondovio**—Mondovio Co-operative Canning Co. incorporated; capital \$25,000; site for factory for yet decided on H. F. Hurtle, president; Louis Haunschild, vice president.

**Wis., Valders**—Martin Bass of Chilton will build foundation and walls for two new boilers in the pea canning factory.

#### BIDS WANTED.

**Minn., Pine Island**—Bids received until noon, April 20, for a cheese factory by the Farmers' Creamery & Cheese Co., plans at Citizens' State Bank, Pine Island.

**\*Wis., Lawton**—Bids received by Edward Husfloen, Ellsworth, Wis., secretary, until 10 a. m., May 2, for a creamery building. Officially advertised in this issue of the Improvement Bulletin.

#### CONTRACTS AWARDED.

**Iowa, Bettendorf**—Contract awarded to McCarthy Improvement Co. for plant of Bettendorf Hydrogen-Oxygen Co., incorporated; capital \$50,000; cement foundation, steel and cement, Dick Lane, J. Reed Lane, T. J. Walsh and H. C. Blackwell, interested.

**Iowa, Elkader**—J. C. Jacobson of Jacobson & Ackerman, architects, has contract for rebuilding lighting plant on Turkey river; also have contract for new concrete flumes for power plant at Harrisville, Wis.

**Iowa, Perry**—J. O. Holdefer stated that he had let contract to J. J. Harter and the Neola Elevator Co. for a new mill; cement block basement, 2-story, structure to be of sheet steel covering, 24x40, modern.

**Minn., Hutchinson**—Thompson & Sorenson have contract for brick work on Hutchinson Produce Co. building.

**Minn., Loretto**—Contract awarded to Albert Boerner, at \$5,543, for Loretto creamery building.

**Wis., Manitowoc**—Walter Oefline, contractor, Milwaukee, has contract for a 5-story, for the Hamilton Manufacturing Co.; 64x102, steel, concrete and brick, modern.

**Wis., Two Rivers**—Walter Oefline, Milwaukee, awarded contract for a 5-story factory building, for Hamilton Manufacturing Co., 64x102, steel, brick and concrete.

**Wis., Two Rivers**—Contract awarded to Albert Tomchek, city, for Kahlenberg plant; 100x60, Prof. Kahlenberg of university, chairman.

## ELECTRICAL

*Notes arranged alphabetically by States.*

**Iowa, Alton**—W. H. Foley of Sanborn bought the local telephone system from David Barker.

**Iowa, Brooklyn**—Grinnell Electric & Heating Co. will install an electric light system here, furnishing current from Grinnell.

**Iowa, Cedar Rapids**—Council ordered 50 cement post electroliters to be installed on Main st.

**Iowa, Cedar Rapids**—Cedar Rapids & Marion Telephone Co. will begin laying tile conduits in this city; cost \$85,000.

**Iowa, Little Rock**—Citizens will erect a local light plant.

**Iowa, Manilla**—\$20,000 bonds voted for municipal light plant.

**Iowa, Mason City**—A franchise was granted to Peoples' Gas & Electric Co. for 25 years; J. H. McEwen, city clerk.

**Iowa, Northwood**—Alban & Lockhart, 408 Chamber of Commerce building, St. Paul, are architects for a telephone building for this city, pressed brick, hollow tile 1-story and basement, 24x30; cost \$8,000; Northwood Telephone Co., owner.

**Iowa, Webster City**—W. J. Elliott, Cedar Rapids, considering buying local telephone system of Independent Co.

**Minn., Ada**—Commercial club started movement for electric railway, Mahanomen to Hillsboro, N. D.

**Minn., Comfrey**—W. C. Buck, Minneapolis engineer, has been engaged to prepare plans and specifications for an electric light plant.

**Minn., Deer River**—Farmers' Telephone Co. organized, T. Ruff, president, line will be built in country north of Ball Club lake.

**Minn., Embarrass**—Embarrass Farmers' Co-operative Telephone Co., incorporated; Oscar Salminen, John Koski and others, work to begin soon.

**Minn., Fairmont**—Fairmont Telephone Co. will erect building in 1915, to Pokegama.

**Minn., Good Thunder**—Good Thunder Electric Co. organized with a capital of \$10,000; R. L. Houk, interested.

**Minn., Henning**—H. J. Cordes, John Nelson and others interested in establishing an electric light plant here.

**Minn., Hill City**—Hill City Telephone Co. is making extensions to Shovel Lake, lines to Smithland and Mississippi are also contemplated.

**Minn., New Ulm**—Luce Electric Co. representatives have made a proposition to Commercial club to extend their lines into this city.

**Minn., Round Lake**—Earl Jackson, engineer, St. Paul, estimates cost of light plant for this place at \$9,000, current may be brought from Worthington via Bigelow.

**Minn., Traverse**—Question of securing electricity from municipal electric plant in St. Peter is under consideration by farmers' in this vicinity; F. N. Wilson, superintendent of St. Peter plant.

**Minn., Windom**—The Tri-State Telephone Co. bought the Windom Mutual Co.

**Mont., Antelope**—A local telephone exchange will be built here and rural lines constructed; F. D. Morck, secretary.

**Mont., Bloomfield**—Work will begin soon on lines of the recently organized farmers' telephone company; L. I. Brown, secretary.

**Mont., Reed Point**—Reed Point Telephone Co. will install a central station and connect with White Beaver line.

**Mont., Ryegate**—Council planning electric light system.

**Mont., Sidney**—Electric light franchise voted to Water Users' Electric Co. and company will build 40 miles of toll line from here to Enia.

**Neb., Beatrice**—W. C. Ross, receiver of the Nebraska Public Service Co. will rebuild the power house and lines here.

**N. D., Lankin**—Village board, Thos. Machart, chairman, have taken steps to secure street lights.

**S. D., Avon**—Council gave franchise to John Burbeck to install an electric light plant.



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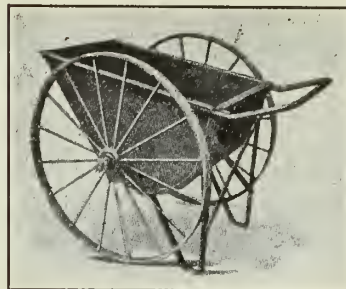
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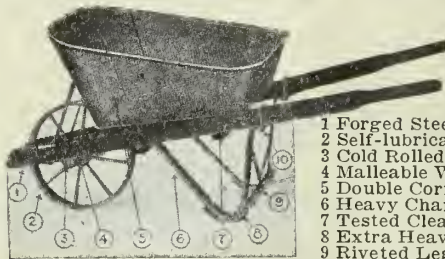


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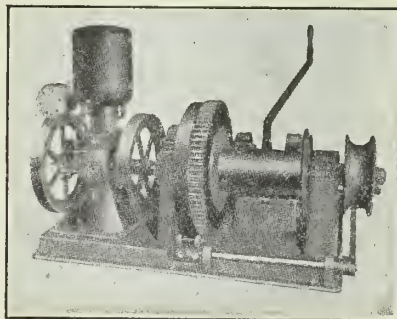


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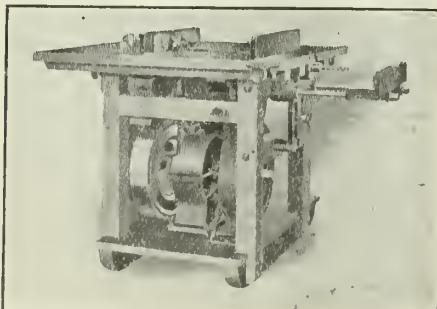
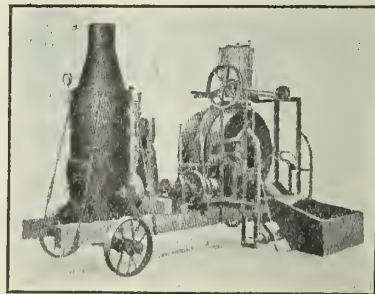
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**S. D. Florence**—Dexter-Fulton Telephone Co. organized by Thos. Hagen and others; capital \$5,000.

**S. D., Iroquois**—Clayton Stoner and Wm. Jordan, bought local electric light plant.

**S. D., Iroquois**—Local electric light plant was sold to Clayton Stoner and Will Jordon.

**S. D., Parker**—\$20,000 bonds voted for electric light plant.

**\*Wis., Algoma**—Manitowoc & Northern electric may be extended from Two Rivers to Sturgeon Bay, with Higgins interest of Manitowoc and Galle Co., Minneapolis; surveys made.

**Wis., Ashland**—Ashland Drummond toll line, Bell Telephone Co., will be extended to Hayward and Cumberland; cost \$10,000; P. J. Skolsky, district manager.

**Wis., Boscobel**—Citizens favor abolishing city plant and buying electricity from Lancaster Co.; council will act at once.

**\*Wis., Florence**—Engineer D. H. Maury, 1137 Monadnock block, Chicago, preparing preliminary estimates for light plant here; E. E. Wilson, president light commission.

**\*Wis., Gaslyn**—Gaslyn-Webster Telephone Co., organized with central office at A. J. Cairns; president, G. L. Miller; vice president, John Peterson; secretary, Geo. E. Miller.

**Wis., Janesville**—Chicago & Wisconsin Valley Railway Co., Washington building, Madison, will build 38 miles of road; extension to Portage abandoned for this season.

**Wis., Madison**—Hammel Telephone Co. will install plant and system in Hammel and territory.

**Wis., Madison**—Southern Wisconsin Railway Co. may build line between here and Middleton, F. W. Montgomery, president.

**Wis., Merrill**—Minneapolis, Marinette & Merrill Ry. Co., John O'Day, president, Merrill will build line to Athens.

**Wis., Milwaukee**—R. W. Hunt & Co., Chicago, engineers, will make survey of street lighting conditions; cost \$4,850.

**Wis., Mineral Point**—Mineral Point Public Service Co. bought Dodgeville Electric Light & Power Co. and will erect power house here, brick, concrete and steel, contain boiler room, 56x75, engine room, 46x71, building 50 feet high, tile roof, will wreck present building, Dodgeville to be supplied with current from here after July 1, will extend transmission lines also to Mifflin and Livingston.

**Wis., Pound**—Line started soon from here to Coleman by Coleman-Pound Light & Power Co., connection with High Falls line Aug. 1; Otto Koenig, this city, J. E. Sager, Coleman, owners.

**Wis., Rhinelander**—Farmers' Telephone Co. organized, C. P. Crosby, president; line to Cassi and Harshaw.

**Wis., Rhinelander**—Oneida Farmers' Telephone Co., incorporated by C. P. Crosby and others; work to begin soon.

**Wis., Superior**—Wisconsin Telephone Co. will spend \$30,000 for improvements, under ground conduits.

**Wis., Trego**—Orb Porter brought the local telephone line.

**Wis., Wrightstown**—Wisconsin Public Service Co., will extend electric lines from here through Greenleaf, to Greenville and Reedsville, cost \$12,000; Paustain Electric Co., Brillion, has a 10-year contract with service company to distribute power to business houses of said towns.

#### BIDS WANTED.

**Iowa, Chariton**—Bids received by G. J. Gittinger, clerk, April 20, for remodeling electric light plant, new boiler, engine and dynamo will be purchased.

**Mont., Lewistown**—Bids received by H. L. Fitton, city clerk, 8 p. m., May 11, for installation of a street lighting system in special improvement district No. 1; check for 5 per cent; plans for \$5.

**N. D., Grand Forks**—Bids received 10 a. m., May 7, for furnishing and putting in place new light fixtures at the county court house.

**N. D., Wahpeton**—Bids received by O. Wenderoth, supervising architect, Washington, May 5, 3 p. m., for electric light fixtures complete for the U. S. postoffice here.

#### CONTRACTS AWARDED.

**Iowa, Nevada**—Contract signed by Iowa Railway & Light Co., and Lookingbill & Enfield Co., Maxwell, for electric service between Nevada and Maxwell; transmission line will be built to supply Maxwell, Collins and Rhodes.

**Minn., Hibbing**—Contract for posts for white way let to E. P. Morris, New York; cost \$14,129.

**Minn., Thief River Falls**—Northwestern Electric Railway Co., awarded contract for 20 miles of road to John Moberg of Bemidji, contract for laying steel and ties to Isaal Nelseth, local contractor; to be completed Aug. 15.

**\*Minn., Virginia**—Frank Johnson & Co., Duluth, contract for Mesaba telephone building, electrical contract to the Electric Shop, Virginia.

**Neb., Red Cloud**—Independent Telephone Co. let contract

for building to Mr. Jensen, Fairbury, heating and wiring, and plumbing, Morhart Bros., local.

**Neb., St. Cloud**—Contract for telephone building let to T. A. Johnson, Fairbury, at \$4,700.

**N. D., Grand Forks**—White way contract awarded to Minneapolis Steel & Machinery Co., Chas. Evanson, clerk.

## CHURCHES

*Notes arranged alphabetically by States.  
Items marked with asterisks not in Daily Sheets.*

**Alta, Edmonton**—Roman Catholic church planned; cost, \$100,000; to be known as St. Joseph's church.

**Iowa, Ogden**—Evangelical Lutherans will erect church.

**Iowa, Rolands**—The people of Salem's church will build new building; plans by Architect Hereim, Story City, Iowa; cost about \$18,000; M. N. Grove, O. T. Thompson and others committee.

**Iowa, Wall Lake**—German Lutheran congregation will erect church.

**Iowa, What Cheer**—For further information concerning Christian church at Indianapolis, Iowa, address C. N. Brower, What Cheer, Iowa, R. D.; walls and ceilings finished in Upson or beaver board.

**Iowa, Williams**—Church will be enlarged and remodeled; cost \$5,000.

**Minn., Faribault**—Plans prepared for remodeling or rebuilding of Methodist church; Rev. Mr. Allan, pastor.

**Minn., Sleepy Eye**—The Northwestern Holiness association will build a church; Kelly Mros. of Stark, trustees.

**Minn., St. Clair**—Catholic church burned; loss about \$8,000; insured at \$3,000.

**Mont., Billings**—Foundation German-Russian Congregational church started; Rev. W. L. Reiser, pastor, frame, 75x40.

**Mont., Conrad**—Presbyterians will build church.

**Neb., Dixon**—Church will be erected here, P. August Nelson, Oscar Johnson, G. O. Johnson, committee.

**Neb., Elgin**—M. E. church basement delayed by brick famine.

**N. D., Carrington**—M. E. church will soon ask for bids for new building to replace one recently burned.

**N. D., Ryder**—Bid on Presbyterian church rejected; new plans will be prepared and bids asked.

#### BIDS WANTED.

**\*Minn., Parkers Prairie**—Bids received by F. C. Proehl, treasurer, until 8 p. m., April 28, for a church building; check for 3 per cent. Officially advertised in this issue of the Improvement Bulletin.

**N. D., Addison**—Bids received until April 24, 10 a. m., for erection of a church building, Cass county, N. D., for the Bruder Gemeinde Zu Canaan congregation; plans by Body & Steward, Pittsburg, Pa.; check \$500; plans on file at Builders' Exchange, Fargo, N. D., and at residence of Albert Piper, treasurer, Davenport, N. D.; B. G. Hans, secretary, 714 4th av. N., Fargo, N. D.

**N. D., Ryder**—Bids rejected on Presbyterian church; plans will be changed; new bids.

#### CONTRACTS AWARDED.

**Iowa, Sioux City**—Contract awarded to Coomer & Small, for Whitfield M. E. church; cost \$40,000.

**Minn., Delano**—Contract for St. Mary's church was let to Bartek Cebulla, this village, at \$12,175.

**Mont., Willow Creek**—D. W. Andrews, 112 N. Rodney has contract for south Methodist church.

**Neb., Gordon**—Contract awarded to Price & Conklin for \$5,000 Methodist Episcopal church.

## ELEVATORS

*Notes arranged alphabetically by States.*

**Iowa, Emmetsburg**—The Farmers' Elevator Co. will soon let contract for a new elevator, capacity 40,000 bushels.

**Iowa, Larchwood**—Moreland & Shuttleworth elevator razed; new elevator to be built.

**Minn., Duluth**—The Consolidated Elevator Co. will build a \$2,000,000 bushel addition to elevator "H," cost \$400,000.

**Minn., Fosston**—Citizens of Fosston will erect a potato warehouse.

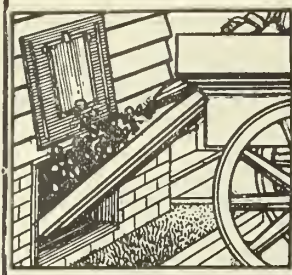
**Minn., North Redwood**—North Redwood Farmers' Elevator Co. incorporated, \$10,000; Frank Newenberg, president.

**Mont., Ulm**—Cascade Milling & Elevator Co. will erect an elevator here, Mr. Schwachheim, manager.

**Neb., Ceresco**—Farmers' Union will form a company to build or buy elevator.



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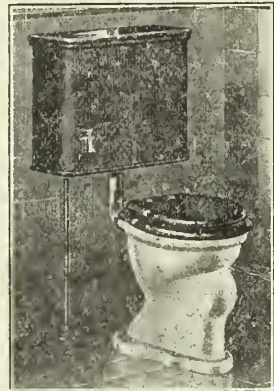
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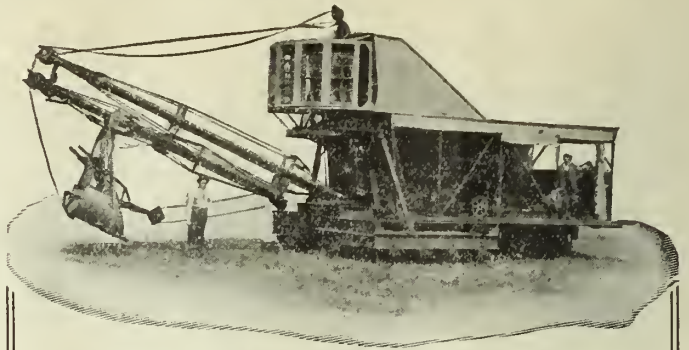
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**Neb., Nickerson**—Contract awarded Salvin Spangler & Son, for farmers' elevator.

**N. D., Devils Lake**—The Woodworth elevator at Southam, (not P. O.) burned.

**N. D., McClusky**—Fire destroyed the Herr Elevator, insured \$1,500.

**N. D., New Rockford**—Fire destroyed the Monarch & Powers' elevator.

**S. D., Egan**—The F. M. Tusia Grain Co. will wreck two elevators and construct modern type.

**S. D., Willow Lake**—Directors of Farmers' Elevator at Gallagherville, (not P. O.) have awarded contract for new elevator, capacity 30,000 bushels; contract price \$6,000.

## BUSINESS BUILDINGS

*Notes arranged alphabetically by States.*

**Alta., Calgary**—Syndicate is negotiating with Merchants' Bank for erection 10-story block; cost \$300,000.

**Alta., Edmonton**—A 3-story store and apartment house will be built; cost \$30,000; R. Cleland, owner, 344 14th st.

**Alta., Edmonton**—Work started on excavation of the Williamson, 4-story block; cost \$96,000; W. R. Morehouse, architect.

**Alta., Medicine Hat**—E. D. Bennett is having plans prepared for a modern, concrete 6-story office building; cost \$200,000.

**Iowa, Centerville**—Fire destroyed the Grand Leader Store, of J. A. Lane.

**Iowa, Council Bluffs**—Modern improvements are being made on L. C. Brackett store building, pressed brick front, ornamental and show glass, to be ready May 1.

**Creston, Iowa**—J. H. Merrill Co. will erect a warehouse, 3-story, brick and mill construction, 28x120, contract let to Young & Woodard, Creston, Iowa; plans by architects, Williamson & Yule; granite cut stone, red brick, electric lights, sheet metal siding, composition roof; cost \$10,000.

**Iowa, Denison**—Edgar L. Barber, architect, Denison, Iowa, prepared plans for an addition to R. W. Wheeler building, contract let to N. Haworth and A. D. Servoss of this place.

**Iowa, Ft. Madison**—Swift & Co. will erect a 4-story modern building, 70x110, excavation started.

**Iowa, Imogene**—Addy & Hilliary will build a new brick building.

**Iowa, Perry**—J. S. O'Malley will build a 2-story brick modern store building; C. W. Council plans, 25x70, building, 1-story.

**Iowa, Postville**—Citizens' State Bank plan to erect building.

**Iowa, Sioux Rapids**—Nichols & Brown have contract for building J. C. Hitchcock & Co.'s new business building in Webb.

**Iowa, Sioux City**—Plans for Live Stock National Bank building at stock yards, are completed, W. L. Steele, architect, 3-story reinforced concrete, fireproof, provisions for two additional stories; plans ready for contractors about the middle of May.

**Iowa, Sioux City**—Permit issued to Dr. A. J. Rederich, for a 2-story brick store; cost \$10,000.

**Iowa, State Center**—Schilling Bros. started brick store.

**Iowa, Udell**—Udell Savings Bank will build; brick.

**Iowa, Yetter**—Work will begin about May 15, on remodeling big store building here.

**Minn., Anoka**—Matt Schaefer is building large addition to his store and warehouse.

**Minn., Baudette**—Anton Levanhosky will build brick store building.

**Minn., Benson**—J. A. Olson will build 2-story brick implement warehouse, 50x130, concrete floor, Engstrom & Fallis, contractors, modern.

**Minn., Breckenridge**—Nortz Lumber Co. erecting warehouse.

**Minn., Dawson**—Fire destroyed Holtan restaurant, J. E. Lund, hardware store, Citizens' State Bank, Jackson & Emerson's merchandise store; loss about \$22,000; partly insured.

**Minn., Eveleth**—National Miners' Bank will build brick, 2-story, bank and office building; Wm. T. Bray, Duluth, architect.

**Minn., Fairmont**—F. E. Wade will build a 5-story block, modern.

**Minn., Fergus Falls**—Branch will be built here by S. G. Palmer Co., commissioner, Minneapolis, fruit cold storage; plans by C. A. Berger, refrigeration engineer, Sykes building, Minneapolis.

**Minn., Henning**—Dr. A. J. Lewis will build brick office and residence block, 2-story, 40x40; cost \$7,000.

**Minn., Marine Mills**—Marine Mills State Bank will build bank; Roy Quimby, Chas. Strand, Geo. Kuno, Swen Magnuson and John Ecklund, directors.

**Minn., Otisco**—Paulson Bros. of Albert Lea, will build a bank-building soon.

**Minn., Willmar**—Plans for Kandiyohi County Bank prepared by A. Moorman & Co., St. Paul; 1-story, Bedford stone, bronze doors, copper frame, terrazo floors, marble, cathedral oak, battleship linoleum, steam heat, ventilation, shower baths, grille work, etc.; cost \$60,000.

**Minn., Winnebago**—The Blue Earth Valley National Bank will erect a modern bank building, 30x60, fireproof; A. L. Ward, interested.

**Mont., Anaconda**—Thorson Bros. contemplate 2-story brick business block.

**Mont., Billings**—A new \$150,000 brewery, financed and controlled by local capital, will be started here, site to be chosen soon for new plant.

**Mont., Billings**—A \$150,000 office and store building will be erected by the Montana Power Co., J. F. Roeche, manager.

**Mont., Billings**—J. Collins West, announces new company will build new brewery plant; cost \$150,000; work to begin soon as site is purchased.

**Mont., Columbus**—Plans ready for \$30,000 business block: First National Bank will build, 2-story, pressed brick, stone trim; \$15,000.

**Mont., Great Falls**—A. W. Kingsbury plans \$50,000; modern, 3-story business block, 50x150; also 2-story structure, 50x125.

**Mont., Havre**—J. K. Bramble will build 2-story brick business block.

**Neb., Arlington**—Work has started on business block of F. G. Menking, A. G. Ludwig, contractor.

**Neb., Blair**—Citizens' State Bank will build, modern.

**Neb., Columbus**—Seth Braun has started \$5,000 brick store, 22x80.

**Neb., Columbus**—Plans for store finished for Seth Braun, cream colored brick, tile and marble exterior, modern, architects, Wurdeman & Newman.

**Neb., Dakota City**—Brick block will be built at once by Schrieder Bros. Co., hardware.

**Neb., Falls City**—M. N. Bair, architect, Hastings, Neb., prepared plans for a law office for Edwin Falloon, 1-story, 25x46, brick and stone; stone foundation, press and humboldt brick, native stone, Follansbee tin roofing, stone cornice, double strength and plate glass, hard wall plaster, hot water heat, yellow pine floors and finish, decorating, plumbing; contract to be let about May 10.

**Neb., Fremont**—Al. Koyen contemplates erection of brick block; cost \$30,000.

**Neb., Hartington**—J. G. Best has started reinforced concrete store, 25x105, glass and copper front, steel beams, for drugs; all fireproof.

**Neb., Heartwell**—Byers Lumber Co. will erect a brick office building.

**Neb., Lincoln**—Plans for remodeling Armstrong's clothing store accepted; cost \$30,000; double deck front, arcade front panel work, white quarter sawed oak with golden wax finish, tile floor in arcade, lobby, mezzanine floor, cabinet, passenger elevator, modern throughout; T. P. Harrison, contractor, store front; Harry Dobbs, interior remodeling.

**Neb., O'Neill**—Jordan & Warner has let contract for a 42x45, concrete fireproof building.

**Neb., Potter**—Excavation is nearly completed on Dr. Ames' new business building, modern brick and tile, 24x50, Albert Peterson, carpenter.

**N. D., Hazen**—Work will soon start on the Citizens' State Bank building, modern, 25x60, with basement.

**Neb., Kearney**—Cement contractor E. R. Edwards is contemplating erection of business building.

**Neb., Keystone**—J. Curry is laying foundation for new pool hall.

**Neb., Wausau**—Larson & Holst are contemplating erection of brick store building.

**N. D., LaMoure**—LaMoure State Bank has secured a 10-year lease from the government for postoffice building; brick, 25x60, 1-story, contract not let yet.

**S. D., Jefferson**—Postmaster Eugene Prault will begin business building at once.

**S. D., Sioux Falls**—Excavation begun on building for C. L. Norton, brick, 3-story, construction to begin soon.

**Wis., Cadott**—Fire destroyed a portion of business section including, postoffice building, Miller's drug store, Romberg's soloon, Regan's cash store; loss estimated at \$40,000.

**Wis., Chippewa Falls**—Farmers' Produce Co. are making plans to erect a general store building.

**Mont., Choteau**—T. O. Larson, W. A. Gorham, J. I. Cain and





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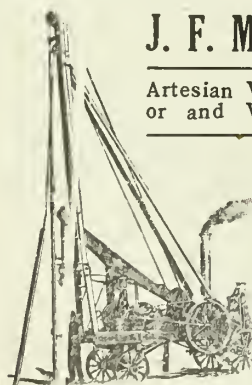


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Chas. and Jay Cowell will build a business block.

**Wis., Elderon**—Fire destroyed the following business buildings, Elderon State Bank, Wolgren & Holmes, store, Northern Milling Co., warehouse; Elderon-Wausau Telephone Co., office, Elderon Wood Products Co., store; E. J. Benson, office building; Halverson & Grauley, store, L. A. Doty, store, Frank Charbeau, store, Cloverdall & Reed, office building; loss \$40,000.

#### BIDS WANTED.

**Minn., Bemidji**—Bids received until April 20, for a building for Gil Bros., plans at store of Gill Bros. or architect's office, Haxby & Gillespie, Fargo, N. D.

**N. D., Grand Forks**—Bids will be opened April 29, on construction of 5-story building, work to begin May 1.

**S. D., Carthage**—Plans by architect F. C. W. Kuehn, Huron, S. D., for a 1-story brick store building, for E. B. Raesly; 50x50; cost \$6,000, lime cut stone, common, pressed brick, sheet metal, composition roof, plaster, paint, varnish, plate glass, maple floors, yellow pine finish; bids close soon.

#### CONTRACTS AWARDED.

**Alta, Edmonton**—Work started on 3-story Condell block, cost \$50,000. Dr. W. H. Conell, owner; Dunlop & Johnson, contractors; E. C. Hopkins, architect.

**Iowa, Cedar Rapids**—J. C. Mardis Engineering Co. have contract for construction of Lyman-Stark building.

**Iowa, Lake Park**—Sam Swanson, Worthington, Minn., was awarded contract for two large stores here, 44x120, and 20x80; brick, modern, \$17,000.

**Iowa, Sigourney**—Contract for Haffner Drug Store Co., and Thomas building, Sigourney, Iowa, has been awarded to Russell & Fisher, of Cedar Rapids, Iowa, at \$7,000.

**Minn., Hutchinson**—Contract for brick work on store building of H. A. Dobratz to M. C. Madsen.

**Mont., Lewistown**—Contract awarded to the Piper Construction Co. of Billings for a 2-story modern building, for the Fergus County Realty Co., cost about \$30,000.

**Neb., Oakland**—Farmers' & Merchants, National Bank placed a contract with A. Moorman & Co., St. Paul, for transformation of bank building and interior; Bedford stone front, classic design with colonade entrance; copper, bronze entrance, doors and frames; interior of marble and bronze, with terrazzo floors, ornamental stucco, beam ceiling, semi-indirect light fixtures, cathedral oak finish, work to be completed this summer.

**N. D., Grand Forks**—Contract awarded to Geo. Sturtevant, for new H. K. Geist building, 3-story.

**S. D., Huron**—Contract awarded to Hoglund Bros., Minneapolis, Minn., for City National Bank, Huron; cost \$16,000; work will be started at once; F. C. Kuehn, architect, Huron, S. D.

**S. D., Watertown**—Contract for Citizens' National Bank awarded; Hoggson Bros., Chicago, will have supervision of erection; Gray Construction Co., of Watertown, brick work, other parts of contract will probably be sub-let to local contractors; fireproof, brick, base of St. Cloud stone, rough cast, plate glass, brick colonades; cost about \$75,000.

**Wis., Hurley**—Fred Hawn has contract for a \$15,000 business building in Wakefield, (not P. O.) for an Ironwood party.

**Wis., Whitewater**—Contract awarded to John Bonnett and Newt Wells, city, for Whitewater Commercial Savings Bank.

ton wagon scale for city; bids on steel and wood frame; check for \$25; L. W. Miller, city auditor.

#### CONTRACTS AWARDED.

**Wis., Racine**—Contract awarded to Edward Gillen, this city, for docks, Milwaukee river, Milwaukee.

### GARAGES AND BARNs

**Iowa, Bedford**—R. W. Thompson will build garage, 66x126, modern, brown pressed brick front, cement floors, brick floors, steam heat, completed June 15.

**Iowa, Shaller**—C. H. Reuber will build a modern garage.  
**Iowa, Sidney**—Fire destroyed I. X. L. livery barn, Hawes Yates, owner.

**Iowa, Titonka**—E. G. Bruns will build large garage.

**Iowa, Zeoring**—I. H. Clay will build a modern garage.

**Minn., Albert Lea**—Plans completed for barn, 36x100, reinforced concrete, modern, for Mortenson Bros.

**Minn., Austin**—Carlson-Erdman garage begun, brick, 60x115, pressed brick front, plate glass, copper sash, transoms, prism glass, sliding doors, 5-inch concrete steel reinforced, cement floor basement, steel trusses, roof, modern.

**Minn., Canby**—A. J. Fossbender will build barn, 50x64.

**Minn., Canton**—Plans prepared by F. L. Marsh, architect, Champlin, for a 2-story, general purpose barn, for M. C. Willford, first floor tile, second wood, 36x120, tile fireproofing, bored well, pneumatic pump, good house paint, fresh from well water system, concrete and creosoted block floors, steel corn. stalls and stanchions, ventilating system.

**Minn., Carlton**—Contractor Emil Newquist is building a modern garage.

**Minn., Fertile**—Andrew Holen will build barn, 100x40, others to build are: Lars Lexvold; Geo. Sisjord.

**Minn., Mankato**—Architect Gerlach, Mankato, Minn., is preparing plans for 3 garages, Kaufman Bros., Sleepy Eye, Minn., 75x100; \$10,000; Kaufman & Genb, Minnesota Lake, fireproof, 40x80, \$4,000; fireproof garage, Reynolds Bros., Winnebago, \$5,500.

**Minn., Okabena**—Okabena Auto Co. will build hollow clay block garage.

**Minn., Paynesville**—Witt Auto Co. have secured sites and have contractors figuring garage.

**Minn., Rochester**—T. E. Barber will build a modern garage.

**Minn., St. Cloud**—Garage being erected by Hugo Grundman.

**Minn., Wabasha**—Garage for Gilbert Schmidt started.

**Minn., Walker**—L. H. Chase will build modern barn.

**Minn., Worthington**—W. E. E. Greene, architect, Luverne, Minn., prepared plans for a 1-story, brick garage, 104x104; cost \$10,000, for J. F. Ulrich, Worthington, Minn.; concrete foundation, face and common brick, asbestos roof, plate glass, hard wall plaster, steam heat, concrete floors, cementing, electric lights, hollow tile, iron beams, wire lath, plumbing, ventilators, contract to be let soon.

**Mont., Cut Bank**—H. Olinger will build a feed and sales stable.

**Mont., Great Falls**—E. A. Smith received permit for a frame garage, also L. H. Drew, 1-story frame and Recca Scott, for a frame garage.

**Mont., Lewistown**—Bids opened April 20, for Lewistown Auto Co.'s garage.

**Neb., Hastings**—C. W. Way Co., Hastings are drawing plans for a garage for Mrs. W. J. Falk.

**Neb., Richland**—W. S. Brockelsby will build a modern garage.

**N. D., Moscow**—Sam Gunderson will build a barn, modern.

**S. D., Ramona**—Sherman & Son erecting a garage, 30x72, modern.

**S. D., Reliance**—Theo. Lebsalter and Oliver Berg are building a garage, modern.

**Wis., Potosi**—Grover Vogelsberg and Leo Stoll building garage, 32x66, 2-story, modern.

#### BIDS WANTED.

**Neb., North Platte**—Bids received until 4 p. m., April 11, for hollow brick dairy barn, experiment station here; \$10,000; plans with superintendent, W. P. Snyder, North Platte and superintendent of construction, University of Nebraska; J. S. Dale, secretary, university.

#### CONTRACTS AWARDED.

**Minn., Albert Lea**—Contract for a garage with 14,000 feet floor space, let to Roe & Beck, city; excavation started; for Hellie Auto Co., O. K. Hellie.

**Wis., Wrightstown**—Contract awarded to John Nelson for large barn, 42x116, hip roof, for John Sprangers, West Holland; also barn for Wm. Dambie, Kaukauna, Wis.

### MISCELLANEOUS

*Notes arranged alphabetically by States.*

**Iowa, Muscatine**—City council given official approval to creation of river park commission for \$250,000 improvement of river front; address city clerk.

**Minn., Little Falls**—Preliminary work being done for solid concrete dam across Mississippi this summer by Water Power Co. to cost \$150,000.

**Mont., Butte**—Work started on first unit of Anaconda's leaching plant at the Washoc smelter, to cost \$1,250,000; E. P. Mathewson, manager.

**Wis., River Falls**—River Falls Power Co. will build 90-foot reinforced concrete dam across Kinnickinnic, above plant at Clifton; bids and other matters to be attended to by stockholders in Chicago; will furnish power for St. Paul Southern Electric railway system.

#### BIDS WANTED.

**N. D., Grand Forks**—Bids received by John Elkhof, chairman committee, until 4 p. m., April 21, for a rendering tank, drier, electric motor and vacuum pump, etc., for the city abattoir.

**N. D., Harvey**—Bids received till 8 p. m., April 18, for 6-



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## RESIDENCES

*Notes arranged alphabetically by States.*

**Iowa**—Following will build residences: Clarion—Geo. Linebarger, modern. Council Bluffs—S. Harle, 1-story frame, \$1,500. Council Bluffs—Geo. W. Stork, 1-story, frame, \$1,000. Davenport, Vic. H. Plath, 2-story stucco. Grundy Center—H. L. Kliebenstein, modern. Odebolt—Geo. Mandernach, modern bungalow. Fonda—Chas. Chase, modern. Davenport—W. Giecen, 2-story, frame, \$2,400; Gustav Anderson, 1½-story frame, \$1,600.

**Iowa**—Following will build residences: Rockwell City, Wm. Hurdle. Waucoma—Henry Lang, modern.

**Iowa**—Following will build residence: Denver—H. C. Burns modern. Davenport—Ida Rehling, 2-story, frame, \$4,000. Perry—Roy F. Porter, bungalow, modern. Cedar Falls—C. B. Rhodes, modern. Davenport—M. T. Murray, remodel, 2-story frame, \$1,700. Decatur—Dr. Britton, modern. Pocahontas—Thomas Shimon, modern. Pocahontas—I. H. Brokaw. Titonka—Summer Hudson, modern bungalow.

**Minnesota**—Following will build residences: Faribault—Congregational church, parsonage, plans by Glenn L. Saxton. Parkers Prairie—John R. Barker, modern bungalow, St. Cloud. Revere—Mr. Prail, modern. Wood Lake—Wm. Frank, cement block; Jacob Schmidt, cement block. Tyler—John Anderson; Nels Anderson; F. Gumstrup, modern.

**Minnesota**—Mountain Lake—John Sawarzkzy, modern, Anton Burtness, modern.

**Minnesota**—Following will build houses. Warroad—Contract let to Christ Hamness for cottage of Carl Lundstein, of Williams. Farmington—Walter Lewis, modern. Houston—L. P. Johnson, modern. Winona—Geo. Fischer. Isanti—Louis O. Englund, modern. Cokato—Andrew Hoard.

**Minnesota**—Following will build residences: Buhl—Francis Rosati, modern. Benson—Engstrom & Fallis, have contract for Elmer Cornell's house. Lanesboro—Martin Nelson has contract for 2 modern, for Erick Bothum and Peter Bradley. Eveleth—Chas. Ratty has contract for Frank Rabinowitz, Jacob Stein and Sam Seigel.

**Minnesota**—Following will build residences: Slayton—W. A. Elliott, three, modern. Lewiston—J. H. Wirt, modern. Halstad—C. L. Sulerud, modern, cost \$6,000; H. Pace, contractor. Benson—I. C. Nelson, modern. T. H. Donnelly, contractor. Twin Valley—Andrew Rude. Janesville—Herman Peltenberg. Glenwood—Geo. Hallett, bungalow. Litchfield—A. H. Hanson, modern bungalow. St. Cloud—Leopold Kreisel, modern, \$2,000. St. Cloud—Dr. J. H. Beaty, remodeling into duplex. Springfield—B. F. Mowry. Vesta—A. D. Wyman. Hollo-way—E. G. Muller, bungalow, modern, \$2,500; M. Craver, contractor.

**Montana**—Following will build residences: Darby—Dan McGinnis. Libby—County Commissioner Paul D. Pratt, modern. Libby—E. M. Plummer, modern.

**Montana**—Following will build residences. Great Falls—Great Falls Home Building Co., 2-story, frame; 1-story frame, \$4,000, \$2,500. Clyde Park—W. C. Nance, B. A. Raver, G. L. Killorn. Bainville—Dr. Spooner, 5-room cottage. Anaconda—Mrs. Vollenweider, 3 bungalows; \$8,000; J. H. Blackburn, 4-room bungalow, \$3,000; Paul Fenner, 6-room bungalow; Walter Reynolds, Van Johnson, John Morris, John Jacobson; Dan Lyons, brick, Tim Calnan, Bob Kelly, Dr. J. F. Spelman, all modern. Great Falls—Jos. Janetski, 1½-story frame, \$2,500; H. Rooney, 1-story, frame.

**Montana**—Following will build residences: Great Falls—Mrs. J. A. Warner, 1-story. Billings—J. W. Burk, modern. Clyde Park—W. C. Nance, B. A. Raver; G. L. Killorn.

**Nebraska**—Following will build residences: Creston—Wm. Brunken. Bridgeport—C. F. Clawges, modern, contract to J. A. Cartwright. Ed. Pritchett and Jay Capron. Ainsworth—Dr. J. W. McLerans, bungalow. Osceola—Dr. Ralph Peterson bungalow. Nehawka—Omas Schlichtneier, modern. Monroe—John Kyle. Laurel—H. M. Mayer, modern. Glenville, Hero Peters. Germantown—Mrs. Miller. Blair—Fred Siert, contract to Fred Nemitz. Utica—Ralph Hurlburt, modern. Sidney—Contract let to C. P. Grant, for parish house. Superior—Amberson Bros., modern, \$12,000. Laurel—A. C. Goltz, modern bungalow. Yutan—Frank Brabec, modern. Valentine—Dr. Lynch, bungalow. Tekamah, F. W. Palen, Ernest Marden, Henry Pipher, modern. Scribner—Henry Iske, contract to E. J. Kellner. Randolph—Harry Tucker. Hastings—Mrs. E. Konen. Ogalalla—Rectory for St. Luke's Roman Catholic association. Millard—Peter Hanson. Newcastle—P. E. Hagen. Loup City—R. I. Clifford Bone. Humphreys—Fred Liske, modern. Hastings—J. O. Rohrer, 2 bungalows, C. W. Way, architects, Hastings. Ewing—Morritz Ritter, modern. Cody

—Alex Livermont. Auburn—R. C. Boyd, modern. Hastings—Bids received until April 25, noon, for completion of house, for Jos. Davis, C. W. Way Co., architects. Fremont—Wm. Husenetter, 4 modern colonial houses.

**North Dakota**—Following will build residences: Grand Forks—Casper Olson, modern, \$4,200.

**North Dakota**—Following will build residences: Hillsboro—Peter Ydstie, modern. McKenzie—S. R. Day, modern.

**Wisconsin**—Following will build residences: Three Lakes—Wm. Klemochefsky. Madison—Stanley Hanks, 1½-story, cost \$4,000; R. H. Tjedemann, 3-story apartment, cost \$7,500. North Fond du Lac—John Berger, 2-story flat building. Fond du Lac—Dan Entinger, modern. Green Bay—Phillip Neufeld, modern.

**Wisconsin**—Following will build residences: Dodgeville—J. H. Cartwright, modern. Seymour—N. E. Evans. Sheboygan—Zion Reform church, parsonage. Prairie du Chene—W. H. Muller, modern. De Pere, Hubert Berken of Ashwaubenson, concrete block, \$4,000. Sheboygan—Contract for Trinity Lutheran church parsonage awarded as follows: mason work, Aug. DeKarske, carpenter work, Chas. Haack, painting, H. C. Prange Co., plumbing, Hans Sievers, electric wiring, Honold Electric Co., \$5,000.

**Wisconsin**—Following will build residences. Marshfield—Edward Mechler, bungalow. East Delaven—H. A. Brandt, \$20,000. Black River Falls—Gus. Casper, Otto Gunderson, contractor. Kenosha—Geo. Kirk, home burned, loss \$5,000. Alto—John G. Neevel. Madison—C. H. Dunlop, apartment, \$6,500. W. W. Weir, 2-story, \$5,000; Matt Patterson, 2-story, \$3,500; Chas. W. Boling, 1-story, \$2,040. Lancaster—Sam Penneck. Lyons—Wm. Falks, modern.

**Wisconsin**—Following will build residences: Waukesha—Comstock & Dietscham have contract, bungalow, Mr. Harwood, \$9,000. Chilton—Jos. Harlow. Milltown—C. M. Hermansen. Madison—Mrs. Margaret Reis, 3-story apartment house, \$8,195. Madison—Stanley Hanks, 4½-story cottages, \$4,000. Mazomanie—Mrs. Julia Smith.

**Iowa**—Following will build houses: Wellsburg—Plans by Payne & Sons, Carthage, Ill., for a residence for J. L. Lutterman, Wellsburg, frame, bungalow style, 28x28; concrete foundation, shingle roof, wood cornice, hard plaster, furnace heat, oak and maple floors, oak and pine finish, plumbing; cost \$3,500. Oskaloosa—J. B. Doll, cottage. Council Bluffs—M. W. Dempsey, 1-story frame \$2,300. Dow City—Mr. Goldsworthy. Davenport—J. F. Nebergall, 2-story, P. H. Timothy, 1-story, frame. Perry—D. E. Raber, bungalow, contract to Nels Jacobson, \$4,000. Perry—Miss Marguerite, Starkey, modern bungalow.

## PARKS AND CEMETERIES

**Minn., Detroit**—Attorney General Smith and State Auditor Iverson will go to Ft. Ridgely for purchase of 80-acres adjoining park.

**Minn., Virginia**—Many changes in Olcott Park this year; E. D. Philbrick, superintendent.

**Mont., Billings**—Final plans for erection of bath houses, and office buildings near municipal natatorium at South Park were completed; other improvements to be made in park; cost \$2,000.

**Mont., Chester**—Arrangements made for another park at Hingham; supervision of M. A. Johnson.

### CONTRACTS AWARDED.

**Iowa, Clinton**—Contract awarded for new mausoleum in Elmwood cemetery, 24x30, cement block, cost about \$2,500, designed by Hollbrook of Davenport, T. W. Jarge & Co., builders.

**Minn., Mankato**—Contract to J. B. Nelson Construction Co. for pavilion at Minneopa Park, \$1,400.

## RAILROADS

**Iowa, Rose Hill**—Rock Island station burned.

**Minn., Plainview**—N. W. has begun new station here; J. Corvin, superintendent buildings.

**Minn., Thief River Falls**—Contract awarded to John Moberg, Bemidji, for building, 20 miles roadbed of new Thief River Falls R. R. in Pennington county, east from county seat; cost \$60,000; will extend later to International Falls; stockholders largely business men here.



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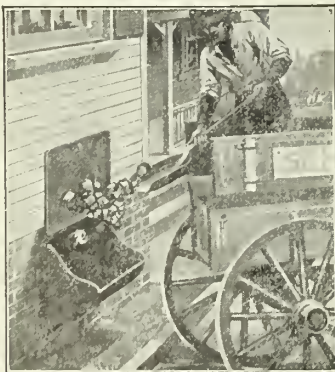


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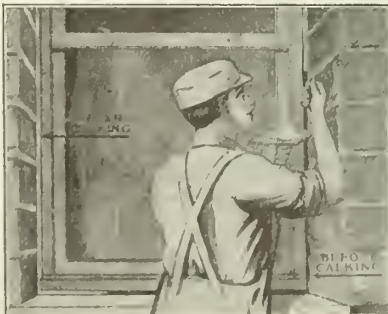
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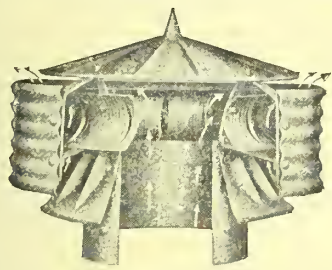
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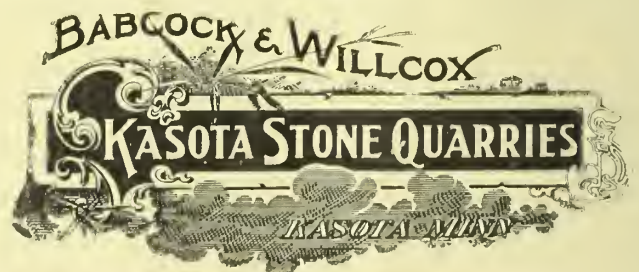
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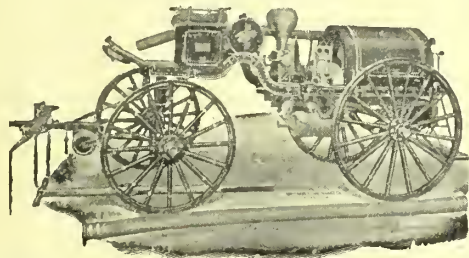
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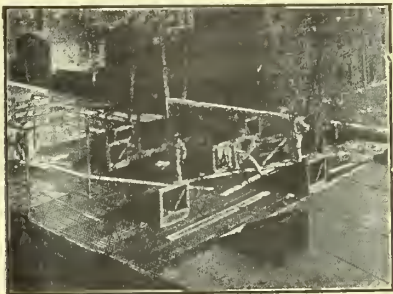
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A Weekly Journal of Construction, Engineering and Architectural News Founded by Harold C. Chapin

Volume XLVII.

Minneapolis, Minn., April 25, 1914.

Number 21

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Flint Brick Co.....Des Moines, Ia.  
Hebron Fire & Pressed Brick Co.....Hebron, N. D.  
Hydraulic Press Brk. Co.Minneapolis, Minn.  
Johnson, Jackson & Corning Co.....Minneapolis and St. Paul, Minn.  
Mason City Brick & Tile Co.Mason City, Ia.  
National Fireproofing Co.....Minneapolis, Minn., and Chicago, Ill.  
Northwestern Fireproofing Co..Mpls., Minn.  
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Shakopee Cement Lime Co.....St. Paul, Minn.  
Sioux City Brick & Tile Works.....Sioux City, Ia.  
Standard Salt & Cement Co..Duluth, Minn.  
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Minneapolis Steel & Mach. Co..Mpls., Minn.  
N. W. Concrete Steel Co.Minneapolis, Minn.  
St. Paul Foundry Co.....St. Paul, Minn.

### BUILDING MATERIAL.

Barber Asphalt Paving Co..Des Moines, Ia.  
Baxter Sash & Door Co.....Duluth, Minn.  
N. B. Cagley & Co.....Minneapolis, Minn.  
Carr-Cullen Co.....Minneapolis, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co..Mpls. and St. Paul, Minn.  
Landers-Morrison-Christensen Co.....Minneapolis, Minn.  
Osgood & Blodgett Mfg. Co.,St. Paul, Minn.  
Shakopee Cement Lime Co.,St. Paul, Minn.  
The Northwestern Lime Co.,St. Paul, Minn.  
Standard Salt & Cement Co.,Duluth, Minn.

### BUILDERS' SPECIALTIES.

Dunlop, Moore Co.....Duluth, Minn.  
Palne & Nixon Co.....Duluth, Minn.  
Standard Salt & Cement Co.,Duluth, Minn.  
Thompson-Williams Co.....Duluth, Minn.  
Waterloo Register Co.....Waterloo, Ia.

### CALKING PASTE.

Minnesota Weatherproof Calking & Glazing Co.....Minneapolis, Minn.

## The Buyer's Guide and Classified Directory of —:— Advertisers —:—

### CEMENT.

Atlas Portland Cement Co., New York, N. Y., Chicago, Ill., and Minneapolis, Minn.  
Carney's Cement Works.....Mankato, Minn.  
Fowler & Pay.....Mpls. and Mankato, Minn.  
Landers-Morrison-Christensen Co.....Minneapolis, Minn.  
N. W. Lime Co..Mpls. and St. Paul, Minn.  
Shakopee Cement Lime Co.,St. Paul, Minn.  
Standard Salt & Cement Co.,Duluth, Minn.  
Speakes Lime & Cement Co.,Superior, Wis.  
St. Paul Lime & Cement Co.,St. Paul, Minn.

### CELLS, STEEL.

Avery Steel & Iron Co..Minneapolis, Minn.  
Crown Iron Works Co.....Minneapolis  
Diebold Safe & Lock Co.,St. Paul, Minn.  
Minneapolis Steel & Mach. Co..Mpls., Minn.

### CEILINGS, STEEL.

Canton Steel Ceiling Co..Minneapolis, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### CHAIRS, OPERA.

Northern Theatre Supply Co..Mpls., Minn.

### COAL CHUTES.

Crown Iron Works Co.....Minneapolis  
Enterprise Iron Works....Albert Lea, Minn.  
Gardner Hardware Co.....Minneapolis, Minn.  
Majestic Furnace & Fdy. Co..Mpls., Minn.  
Standard Salt & Cement Co.,Duluth, Minn.  
Waterloo Register Co.....Waterloo, Ia.

### COLD STORAGE PLANTS.

Chas. A. Berger.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

### COLUMN CLAMPS.

O. F. Symons & Co.....Minneapolis, Minn.

### CONCRETE CONSTRUCTION.

Corrugated Bar Co.....St. Paul, Minn.  
C. A. P. Turner.....Minneapolis, Minn.

### CONCRETE MACHINERY.

Atlas Engineering Co.....Milwaukee, Wis.  
Nels Erickson.....Minneapolis, Minn.  
Eureka Machine Co.....Lansing, Mich.  
G. E. Ingersoll & Co.....St. Paul, Minn.  
Koehring Machine Co.....Minneapolis, Minn., and Milwaukee, Wis.  
Standard Salt & Cement Co.,Duluth, Minn.  
Jaeger Machine Co.....Columbus, Ohio  
Raymer Hardware Co.....St. Paul, Minn.  
Lansing Co.....Lansing, Mich.  
Northwestern Steel & Iron Wks.....Eau Claire, Wis.  
Waterloo Cement Machinery Corp.....Waterloo, Iowa

### CONCRETE REINFORCING BARS.

Inland Steel Co.....St. Paul, Minn.  
Corrugated Bar Co.....St. Paul, Minn.  
N. W. Concrete Steel Co.Minneapolis, Minn.  
Minneapolis Steel & Mach. Co..Mpls., Minn.

### CORNICES.

Griffin & Boehme.....St. Paul, Minn.  
F. V. Haverland.....Minneapolis, Minn.  
Minnesota Roofing & Cornice Works.....St. Paul, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.  
St. Paul Roofing, Cornice & Ornament Co.....St. Paul, Minn.

### CORRUGATED IRON, ETC.

Corrugated Bar Co.....St. Paul, Minn.

### CONCRETE REINFORCING.

Inland Steel Co.....St. Paul, Minn.  
N. W. Concrete Steel Co.Minneapolis, Minn.

### CONTRACTORS.

N. B. Cagley & Co.....Minneapolis, Minn.

### CONTRACTORS' SUPPLIES AND MACHINERY.

Decker Hardware Co.....St. Paul, Minn.  
O. F. Symons & Co.....Minneapolis, Minn.

### CULVERTS.

Victor H. Leebj..... Fargo, N. D.  
Biesanz Stone Co.....Winona, Minn.  
Klauer Mfg. Co.....Dubuque, Ia.  
Minneapolis Steel & Mach. Co..Mpls., Minn.

### CRUSHED STONE.

Fowler & Pay.....Mankato, Minn.  
Kettle River Co.....Minneapolis, Minn.  
Klauer Mfg. Co.....Dubuque, Ia.  
Mantorville Stone Co.....Mantorville, Minn.  
New Ulm Stone Co.....New Ulm, Minn.  
Standard Salt & Cement Co.,Duluth, Minn.  
Widell Co.....Mankato, Minn.

### CREOSOTING.

Republic Creosoting Co., A. E. Larkin.....Minneapolis, Minn.

### DEADENING MATERIAL.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co.,St. Paul, Minn.  
Standard Salt & Cement Co.,Duluth, Minn.  
Union Fibre Co.....Winona, Minn.

### DECORATIONS.

Odin J. Oyen.....La Crosse, Wis.

### DITCHING MACHINES.

Dix Machine Co.....Stillwater, Minn.

### ELECTRICAL ENGINEERING.

Minneapolis Electric Equipment Co.....Minneapolis, Minn.  
Northern Electrical Co..Minneapolis, Minn.

## RATES

For three lines in directory, giving name, address and goods handled, \$25 for 1 year, 52 times.

### SAMPLE AD

Great Northern Brick Company  
Pressed Brick and Drain Tile  
Minneapolis, - - - Minn.

### ELECTRIC MOTORS AND SUPPLIES

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
Minneapolis Electric Equipment Co.....Minneapolis, Minn.  
Sterling Electric Co.....Minneapolis, Minn.

### ELECTRIC SPECIALTIES

Minneapolis Electric Equipment Co.....Minneapolis, Minn.

### ELEVATORS AND ENCLOSURES.

Kimball Bros. Co.....Council Bluffs, Ia.  
Gust Lagerquist.....Minneapolis, Minn.  
Lee & Hoff Mfg. Co.....St. Paul, Minn.

### ELEVATOR CABS.

N. W. Fixture & Cabinet Co..Mpls., Minn.

### ENGINEERS.

Oscar Claussen Engineering Co.....St. Paul, Minn.  
Charles L. Pillsbury.....Minneapolis, Minn.  
L. P. Wolf.....St. Paul, Minn.  
M. B. Stone.....Minneapolis, Minn.  
W. P. Cowles.....Minneapolis, Minn.  
Power Engineering Co.....Minneapolis, Minn.

### FIRE ESCAPES.

Crown Iron Works Co.....Minneapolis  
Des Moines Structural Steel Works.....Des Moines, Ia.  
Davenport Mach. & Fdy. Co.,Davenport, Ia.  
Minneapolis Steel & Mach. Co..Mpls., Minn.

### FIREPROOF DOORS.

Thorp Fireproof Door Co..Minneapolis, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### FLUE LINING.

Northwestern Lime Co.....St. Paul, Minn.  
Standard Salt & Cement Co.,Duluth, Minn.  
St. Paul Lime & Cement Co.,St. Paul, Minn.

### FIRE PROTECTION APPARATUS.

Waterous Engine Works Co.,St. Paul, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

### FIREPROOFING DOORS AND SHUTTERS.

Selden Roofing & Manufacturing Co.....Minneapolis, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### FLOORING.

American Torgmont Flooring Co.....Minneapolis and (Midway) St. Paul, Minn.  
Fama Stonewood Co.....St. Paul, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co..Mpls. and St. Paul, Minn.  
Osgood & Blodgett Mfg. Co.,St. Paul, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.  
L. Stephenson Co.....Wells, Mich.  
Thomson-Williams Co.....Duluth, Minn.

### FURRING.

Corrugated Bar Co.....St. Paul, Minn.

### GAS AND ELECTRICAL FIXTURES.

Herber Chandelier Co.....Minneapolis, Minn.  
Mpls. Electric Equipment Co..Mpls., Minn.  
Minneapolis Gas Fixture Co..Mpls., Minn.  
Sterling Electric Co.....Minneapolis, Minn.

### GLASS.

American Luxfer Prism Co.....Chicago, Ill.  
Minnesota Art Glass Co.....St. Paul, Minn.  
Pittsburgh Plate Glass Co.....Minneapolis and St. Paul, Minn.

### GRAVITY CARRIER.

Minnesota Manufacturers' Association.....North St. Paul, Minn.

### HARDWARE TRIMMINGS.

Decker Hardware Co.....St. Paul, Minn.  
Gardner Hardware Co.....Minneapolis, Minn.  
Raymer Hardware Co.....St. Paul, Minn.  
The Lane Co.....Minneapolis  
Waterous Engine Co.....St. Paul, Minn.  
Warner Hardware Co.....Minneapolis, Minn.

### HEAT REGULATORS.

Andrews Heating Co.....Minneapolis, Minn.

### HEATING AND VENTILATING.

Andrews Heating Co.....Minneapolis, Minn.  
Associate Mfrs. Supply Co.....Minneapolis, Minn.  
Hasey Heating Co.....Minneapolis, Minn.  
H. Kelly & Co.....Minneapolis, Minn.  
National Mfg. & Supply Co..Mpls., Minn.  
Charles Wilkins & Co..Minneapolis, Minn.

### HOSE.

Gardner Hardware Co.....Minneapolis, Minn.  
W. K. Morison & Co.....Minneapolis, Minn.

### HOTELS.

Radisson Hotel.....Minneapolis, Minn.



## NOTE

For street address of firms mentioned here, consult their advertisements, which can readily be found by referring to the alphabetical list on page three.

### INSULATING MATERIAL.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co.....St. Paul, Minn.  
Union Fibre Co.....Winona, Minn.

### INSURANCE.

Fidelity & Deposit Co.....Minneapolis and St. Paul, Minn.  
Fred L. Gray Co.....Minneapolis, Minn.  
Hood & Penney Co.....Minneapolis, Minn.  
W. B. Joyce Co.....Mpls. and St. Paul, Minn.  
Minneapolis Insurance Agcy.....Mpls., Minn.

### IRON AND STEEL WORK.

Avery Steel & Iron Co...Minneapolis, Minn.  
Clinton Bridge Works.....Clinton, Ia.  
Crown Iron Works.....Minneapolis, Minn.  
Davenport Machine & Foundry Co.....Davenport, Ia.  
Des Moines Structural Steel Works.....Des Moines, Ia.  
Inland Steel Co.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
N. W. Concrete Steel Co.....Minneapolis, Minn.  
Oberg & Stainer.....Minneapolis, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.  
St. Paul Foundry Co.....St. Paul, Minn.  
E. J. Voggenthaler Co.....Dubuque, Ia.  
Youngstown Iron & Steel Co.....Minneapolis, Minn.

### JOIST HANGERS.

Avery Steel & Iron Co...Minneapolis, Minn.  
Crown Iron Works Co.....Minneapolis  
Davenport Machine & Foundry Co.....Davenport, Ia.  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
Northwestern Concrete Steel Co.....

### LIME.

Fowler & Pay...Mpls. and Mankato, Minn.  
Landers-Morrison-Christenson Co.....Minneapolis, Minn.  
Gust Lillyblad.....Red Wing, Minn.  
Shakopee Cement Lime Manufacturing Co.....St. Paul, Minn.  
Speakes Lime & Cement Co., Superior, Wis.  
St. Paul Lime & Cement Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
The Northwestern Lime Co., St. Paul, Minn.

### MANTELS—GRATES.

Drake Marble & Tile Co.....Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
N. W. Marble & Tile Co., Minneapolis, Minn.  
Twin City Tile & Marble Co., Mpls., Minn.

### MARBLE, TILING, MOSAIC.

Drake Marble & Tile Co.....Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
N. W. Marble & Tile Co., Minneapolis, Minn.  
Thomson-Williams Co.....Duluth, Minn.  
Twin City Tile & Marble Co., Mpls., Minn.  
Des Moines Marble & Mantel Co.....Des Moines, Iowa

### METAL SHINGLES.

Milwaukee Corrugating Co., Milwaukee, Wis.

### METAL AND WIRE LATH.

Corrugated Bar Co.....St. Paul, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.  
Johnson, Jackson & Corning Co.....Minneapolis and St. Paul, Minn.  
Northwestern Lime Co.....St. Paul, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.  
Thomson-Williams Co.....Duluth, Minn.

### MILLWORK.

Baxter Sash & Door Co.....Duluth, Minn.  
Osgood-Blodgett Mfg. Co.....St. Paul, Minn.

### MUNICIPAL CASTINGS.

Davenport Mach. & Fdy. Co., Davenport, Ia.

### OFFICE FURNITURE.

Farnham Printing & Sta. Co., Mpls., Minn.

### ORNAMENTAL IRON AND WIRE.

Builders Iron Works Co.....Minneapolis and St. Paul, Minn.  
Crown Iron Works Co.....Minneapolis  
Davenport Machine & Foundry Co.....Davenport, Ia.  
Demeules Bros.....Minneapolis, Minn.  
Flour City Ornamental Iron Works.....Minneapolis, Minn.  
Midway Ornamental Iron Works.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
St. Paul Foundry Co.....St. Paul, Minn.

### PAINTS, FILLERS, ETC.

Gardner Hardware Co., Minneapolis, Minn.  
Ricketson Mineral Paint Works.....Milwaukee, Wis.

## The Buyer's Guide and Classified Directory of Advertisers

### PACKINGS AND HOSE.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

### PAVEMENT.

Barber Asphalt Paving Co., Des Moines, Ia.  
Barrett Mfg. Co.....New York, N. Y.

### PICTURE MACHINES.

Northern Theatre Supply Co., Mpls., Minn.

### PIPE AND BOILER COVERING.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

### PIPE—CAST IRON.

American Cast Iron Pipe Co.....Minneapolis

### PLASTER—WALL.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
Plymouth Gypsum Co.....Fort Dodge, Ia.  
Shakopee Cement Lime Co., St. Paul, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

### PLASTERING—ORNAMENTAL.

Brioschi-Minuti Co.....St. Paul, Minn.

### PLASTIC ORNAMENTS.

Brioschi-Minuti Co.....St. Paul, Minn.  
K. F. Lott & Co., Mpls. and St. Paul, Minn.

### PLUMBING AND GAS FITTING

Charles Wilkins & Co., Minneapolis, Minn.

### PRINTING.

Farnham Printing Co., Minneapolis, Minn.

### PRISMS.

American Luxfer Prism Co., Chicago, Ill.  
Crown Iron Works Co., Minneapolis

### PLUMBING AND HEATING JOBBERS.

Associate Mfrs. Supply Co., Mpls., Minn.  
Central Supply Co., Minneapolis, Minn.  
National Mfg. & Supply Co., Mpls., Minn.

### RADIATORS.

Associate Mfrs. Supply Co., Mpls., Minn.  
Central Supply Co., Minneapolis, Minn.

### REVOLVING DOORS.

Van Kannel Revolving Door Co., St. Paul, Minn.

### ROOFING GRAVEL AND ASPHALT.

Griffin & Boehme.....St. Paul, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
Krieger-Jamar Co.....Duluth, Minn.  
Minnesota Roofing & Cornice Works.....St. Paul, Minn.  
Northwestern Lime Co.....St. Paul, Minn.  
Scribner-Libby Co.....St. Paul, Minn.  
Selden Roofing & Manufact.....Minneapolis, Minn.  
Thomson-Williams Co.....Duluth, Minn.  
R. S. Wishart & Co., Minneapolis, Minn.

### ROOFING—METAL.

Badger Steel Roofing & Corrugating Co., La Crosse, Wis.  
Duluth Corrugating & Roofing Co., Duluth, Minn.  
Gardner Hardware Co., Minneapolis, Minn.  
La Crosse Steel Roofing & Corrugating Co., St. Paul, Minn.  
St. Paul Roofing, Cornice & Ornamental Co., St. Paul, Minn.  
R. S. Wishart & Co., Minneapolis, Minn.

### ROOFING MATERIAL.

Barrett Mfg. Co., New York, N. Y.  
Corrugated Bar Co., St. Paul, Minn.  
John Leslie Paper Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
McClellan Paper Co., Minneapolis, Minn.

### ROOFING AND SIDING—IRON AND STEEL.

Gardner Hardware Co., Minneapolis, Minn.  
Inland Steel Co., St. Paul, Minn.

### RUBBER SHINGLES.

Standard Salt & Cement Co., Duluth, Minn.

### RUST-RESISTING IRON SHEETS.

Inland Steel Co., St. Paul, Minn.

### SAFES.

Diebold Safe & Lock Co., St. Paul, Minn.  
Heilig & Elliott Co., Minneapolis, Minn.  
Herring-Hall-Marvin Safe Co.

### SAND AND GRAVEL.

Standard Salt & Cement Co., Duluth, Minn.

### SAW RIGS.

H. B. Jones, 349 Security Bank Building, Minneapolis, Minn.  
Raymer Hardware Co., St. Paul

### SEWER PIPE AND DRAIN TILE.

Ingalls Stone Co., Bedford, Ind.  
Iowa Sewer Pipe & Tile Co., Des Moines, Ia.  
Northwestern Lime Co., St. Paul, Minn.  
Plymouth Clay Products Co., Fort Dodge, Ia.  
Red Wing Sewer Pipe Co., Red Wing, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

## REMEMBER

Announcements on this page are read by architects, contractors, and the building trade generally, all over the Northwest and produce excellent results.

### SHEETS—IRON AND STEEL.

Gardner Hardware Co., Minneapolis, Minn.  
Inland Steel Co., St. Paul, Minn.

### SIDEWALK LIGHTS.

American Luxfer Prism Co., Chicago, Ill.  
Crown Iron Works Co., Minneapolis  
K. F. Lott & Co., St. Paul and Minneapolis, Minn.

### SLATE BLACKBOARDS.

Twin City Tile & Marble Co., Minneapolis, Minn.

### SKYLIGHTS.

Krieger-Jamar Co., Duluth, Minn.  
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.  
R. S. Wishart & Co., Minneapolis, Minn.

### STEEL—BARS.

Inland Steel Co., St. Paul, Minn.  
Twin City Tile & Marble Co., Mpls., Minn.

### STONE.

Babcock & Wilcox.....Kasota, Minn.  
Biesanz Stone Co., Winona, Minn.  
Also Building Material, Gravel for Roofing, Sand and Gravel.  
Breen Stone Co., Kasota, Minn.  
Edw. Edinger Co., Cedar Rapids, Ia.  
Ingalls Stone Co., Bedford, Ind.  
Kettle River Co., Minneapolis, Minn.  
Duluth Cut Stone Co., Duluth, Minn.  
Mantorville Stone Co., Mantorville, Minn.  
New Ulm Stone Co., New Ulm, Minn.  
Pioneer Granite Co., St. Cloud, Minn.  
Sauk Rapids Granite Co., Sauk Rapids, Minn.  
Wm. Penn Stone Co., Minneapolis, Minn.  
The Widell Co., Mankato, Minn.

STRUCTURAL SECTIONS AND SHEETS.  
Inland Steel Co., St. Paul, Minn.

### TANKS—STEEL.

American Bridge Co., Minneapolis, Minn.  
Central Supply Co., Minneapolis, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.

### TELESCOPIC HOISTS.

Avery Supply Co., Minneapolis, Minn.

### TERRA COTTA.

Johnson, Jackson & Corning.....Minneapolis and St. Paul, Minn.  
K. F. Lott & Co., Minneapolis and St. Paul, Minn.  
Ranson, Birtram W., Minneapolis, Minn.

### VARNISHES.

Gardner Hardware Co., Minneapolis, Minn.  
North Star Varnish Co., Minneapolis, Minn.  
Twin City Varnish Co., St. Paul, Minn.

### VALVES.

Central Supply Co., Minneapolis, Minn.  
Crane Co., Minneapolis, Minn.  
Crane & Ordway Co., St. Paul, Minn.

### VAULTS.

Diebold Safe & Lock Co., St. Paul, Minn.  
Heilig & Elliott Co., Minneapolis, Minn.  
Herring-Hall-Marvin Safe Co.  
Also Vault Doors, Vault Furnishings and Filling Equipment.

### VENTILATING SYSTEMS.

Hackney Ventilating Co., Minneapolis, Minn.  
Charles Wilkins & Co., Minneapolis, Minn.

### WALL BEDS.

Northwestern Bedding Co., St. Paul, Minn.

### WATERPROOFING.

Gardner Hardware Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co., St. Paul, Minn.

### WATER TOWERS, STEEL.

Minneapolis Steel & Machinery Co., Minneapolis, Minn.

### WINDOW SCREENS—METAL FRAME.

O. F. Symons & Co., Minneapolis, Minn.

### WIRE AND IRON WORKS.

Builders Iron Works.....Minneapolis and St. Paul, Minn.  
Demeules Bros., Minneapolis, Minn.  
Midway Ornamental Iron Works.....St. Paul, Minn.

### WEATHER STRIPS.

Metal Weather Strip Co., St. Paul, Minn.  
O. F. Symons & Co., Minneapolis, Minn.

### WOODWORKING.

G. E. Ingersoll.....St. Paul, Minn.



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FOR  
PRICES  
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## WHEELBARROWS

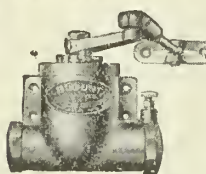
Quick Shipments      Prompt Deliveries  
Agents for Yale & Towne Hardware

### W. K. MORISON & CO.

247-249 NICOLLET AVENUE

MINNEAPOLIS, MINN

(Cut on this line.)



**BLOUNT  
DOOR  
CHECKS**

**SEND THIS COUPON**  
with your order and we will allow you  
**A DISCOUNT OF 10% AND**  
**PREPAY FREIGHT 200 MILES**

1. For Screen Doors..... \$3.25
2. For light inside Doors..... 4.25
3. For heavy inside Doors not  
over 2½x7 feet..... 5.00
4. For light outside or heavy  
inside Doors ..... 6.00
5. For heavy outside Doors not  
over 3½x7½ feet..... 8.00
6. For extra heavy Doors..... 10.00

**GARDNER HARDWARE CO.**

304-306 HENNEPIN AVENUE

MINNEAPOLIS, MINN

(Cut on this line.)

## IDEAL FLOORING

Maple --- Birch --- Beech



**I. STEPHENSON CO., Trustees**  
WELLS, - - - MICHIGAN

## PLYMOUTH CLAY PRODUCTS COMPANY

FORT DODGE, IOWA

MANUFACTURERS OF

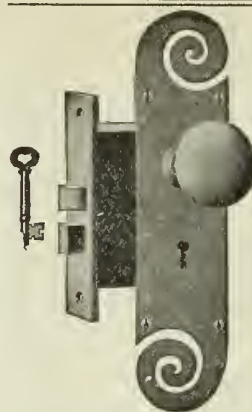
**Large Drain Tile**

**Sewer Pipe**

**Well Pipe**

**Flue Linings**

**Wall Coping**



## WARREN DESIGN COLONIAL

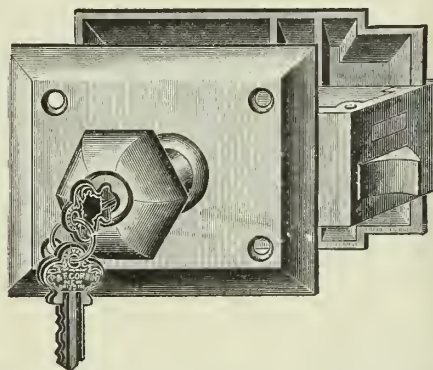
"CORBIN"

hardware provides the  
distinction and worth  
that lies in artistic de-  
signs and honest work-  
manship.

Ask for Catalogs

**WARNER HARDWARE CO.**

13 So. 6th St.  
Minneapolis.



**CORBIN  
LOCKS**

We make a  
Specialty of fine  
Builders' Hard-  
ware and Con-  
tractors' Supplies  
Estimates fur-  
nished promptly.

**ADAM DECKER HARDWARE COMPANY**

347-49 JACKSON STREET

ST. PAUL, MINN.

## BUILDING MATERIALS

SASH

DOORS

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SASH  
DOORS  
AND ALL KINDS OF  
MILL  
WORK

FINISH

MANTLES

GRILLS

All Kinds

of Glass

LET US FIGURE;

ALL ESTIMATES FREE

**CARR-CULLEN CO., Minneapolis**

10 Ave. N. E. and Marshall St. N. E. Tel. N. W. East 345. T. S. No. 345.

Face Brick      Enameled Brick  
Architectural Terra Cotta  
Metal Lath  
Cabot's Creosote  
Shingle Stains and  
Sheathing Quilt

**JOHNSON - JACKSON & CORNING CO.**

216-17 Lumber Exchange  
MINNEAPOLIS, MINN.

633 Ryan Building  
ST. PAUL, MINN.



# The IMPROVEMENT BULLETIN

OFFICIAL ORGAN OF THE MINNESOTA STATE ASSOCIATION OF BUILDERS EXCHANGES

VOLUME XLVII.

SATURDAY, APRIL 25, 1914

NUMBER 21

## EDITORIAL

O. L. COLBURN, Editor

### FAVOR EXCLUDING PAINTING CONTRACT.

Some architects are beginning to carry into effect an inclination to exclude the painting contract from the general contract. In a very recent letting of the general on a large modern residence in one of the Twin Cities, the architect held out the painting and he gave as a reason, that the owner had accepted a certain complete scheme for interior decoration which made it advisable for the architect and owner to retain exclusive control of the painting.

From another source we learn that the decorators and architects are co-operating more than ever and that this fact means that the painting contract, at least insofar as it affects interior effects, will be omitted henceforth with increasing frequency.

It is recalled that Cass Gilbert and his distinguished collaborators on the interior of the Minnesota capitol, used often to lunch together and discuss, as a council, their work as a whole. Blashfield, La Farge and others were in that little group of notables. In the instance of the painting contract omitted last week by the local architect, from the general, the owner, who is taking great interest in the artistic details of his fine new home, is very particular about the surfaces of the finish, especially the finer woods. The rough painting incident to the general structural process, of course is not in mind, when architects urge the cause of painting as a separate contract.

### WOODEN BRIDGES NEARLY EXTINCT.

Some weeks ago a start was made by a northwestern transcontinental railroad company to replace all remaining wooden bridges on a large portion of the line with steel structures. The news was a surprise on account of the revelation of the fact that so many wooden bridges were still in use. The good roads activity has further developed the necessity of steel bridges and state governments have acted accordingly. There is no sort of harmony between good roads and cheap bridges. The wooden affair simply has got to go. It will soon be pre-historic like the wood burning locomotive.

The Iowa Highway commission remarks:

The Iroquois theater fire in Chicago demonstrated forcibly the need of safer theaters.

The Titanic disaster called the attention of the entire world to the need of greater safety in ocean travel.

The Dudley automobile accident between Glidden and Ralston finally waked up Iowa to the need of safer railroad crossings.

It took the lives of three citizens of a single county in a single year, Joe Davis, Alvin Online and George Johnson, to bring Page county and incidentally the whole state of Iowa to the danger of the old wooden bridge and the need of immediate replacement with permanent concrete and steel structures.

### GENERAL IMPROVEMENT OF BUILDING LAWS.

Revision of municipal building laws is in progress in many cities. It is under discussion by officials and civic organizations, in many more cities. The progress in this work extends to state governments and the day of almost wholly unrestricted construction in towns and villages seems to be passing. Wisconsin is campaigning among its citizens for a state code.

San Francisco is one of the cities most recently added to the list of those which have taken up revision of building regulations. "Some months ago," says Engineering Record, "a movement was started in the association of San Francisco members of the American Society of Civil Engineers toward having them brought up-to-date. For some months the matter was under advisement, and just recently a petition to the board of supervisors was sent in, over the name of twenty-two local civil engineers, specifying the changes that were deemed advisable. This petition represents only the individuals who signed it, as the San Francisco association is pre-

vented by custom from officially sanctioning suggestions or recommendations of this sort. As no opposition has developed, and the changes are urgently needed, little doubt is felt that the recommendations will be adopted by the board.

"Mayor Mitchel of New York signed the heights of buildings bill April 14, explaining that while he had doubts of its constitutionality, he was in favor of the measure and wanted a test case made of it in the court.

"As previously described in this journal the bill divides the city into zones for the regulation of the height and character of new buildings. The particular clause in the bill which the mayor believes is unconstitutional reads: 'The board of estimate may regulate and restrict the location of trades and industries and the location of buildings designed for special purposes.' Some lawyers have declared that this might be construed as confiscation of property rights.

"Before becoming a law the measure must also be signed by the governor."

Members of the Minneapolis real estate board and downtown business men favored the adoption of an ordinance regulating building heights, before the council public welfare committee this week.

The Chase ordinance which would limit the height of buildings to 140 feet on 80-foot streets was under consideration. Some changes in this proposed regulation were favored.

C. N. Chadbourn said that the real estate board approved the ordinance, provided that a corner building should be governed by the wider of the two streets on which it was located. He said that 14 stories should be allowed. G. D. Dayton favored a limit of 165 feet. It developed at the meeting that Los Angeles limited buildings to 250 feet, Milwaukee to 150 feet, Portland to 150 feet, Providence to 120 feet, St. Louis to 125 feet, Baltimore to 175 feet, Toronto to 150 feet and Seattle to 20 stories.

L. A. Lamoreaux favored a limit of 165 feet. A. A. Polard favored a limit of ten stories without regard to the height in feet. The committee decided to defer action for two weeks.

### PRIVATE PURSES RESCUE STATES.

Taxpayers are of course the burden bearers of states but in most instances the people pay indirectly. Direct payment of expenses for state enterprises has been exemplified in numerous instances lately when citizens have raised money for state buildings at the Panama Pacific Exposition, San Francisco, after legislatures have refused to appropriate money for the purpose. Minnesota is raising money now and the prospect is that private purses will supply about \$50,000 for a Minnesota building. In Iowa the city of Waterloo raised \$50,000 for an Iowa building for the state. Former Senator W. A. Clark of Montana announced that he had donated \$10,000 for the purpose of providing a Montana building at the San Diego exposition. This donation will enable the Montana exposition commission to provide for a building at the Panama-Pacific exposition at San Francisco, as there will be now no call upon the commission for funds for use at San Diego. The legislature failed to make any appropriation for exhibits at either of the two expositions and funds are being advanced by banks and individuals.

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*If you have ordered goods or materials to the value of fifty dollars,—mentioning The Improvement Bulletin when you order,—we will give you a full year's subscription without cost. Just mention names and dates when you write us. If you haven't already done so, look over the advertisements in this issue. You will find reliable firms in every line advertising here. There is certainly fifty dollars worth of your building materials, supplies or machinery for this season, that you can purchase in this way and get the reward we offer. A year's subscription, you see, is as good as a five-dollar bill, or a ten per cent reduction on your purchase.*

*Address Advertising Department, The Improvement Bulletin.*



# Electrical Power in the Northwest

(The following story of the successful use of electrical energy generated from powerful streams, in this region of mines, manufacturing, lumbering, traction and irrigated farming, appeared in the Public Utilities Edition of the New York Evening Post of March 30, together with much interesting matter, supplied by the Montana Power Co., which made a big boost for Montana.—Editor.)

In a brief review of what public utility companies have done in the past six years for this part of the United States and the development of the hydro-electric power, one feature stands preeminent, even above the extraordinary growth of population, and that is the first successful electrification of railroads for freight and passenger service. Less than a year ago the Butte, Anaconda & Pacific railway was put into practical operation. This is the first road anywhere in the world where electric power appears to have permanently replaced steam. Electrification of terminals has been done more or less successfully, as in New York City, but the actual operation of a former steam road like the Butte, Anaconda & Pacific is the pioneer attempt to substitute electricity for steam.

Montana, Washington and California, particularly adapt themselves for the development and use of electric power through waterfalls. The three states are mountainous and the rich valleys which lie between the ranges of mountains have invited settlers and the growth of cities, while the richly timbered slopes have made possible a commercial and industrial development surpassing that of any other section of the country. On the other hand coal deposits are rare, and such coal as is mined is of a low grade, poorly adapted for commercial purposes. Hence the rapid growth of public utility companies which have developed the many water power sites, hence also the serious consideration by railways of substituting electric power for steam.

In this development of hydro-electric power, three corporations substantially control now these three states. The Montana Power Co. today holds almost all available sites in Montana from Billings and Lewistown in the east to Big Sandy on the Canadian border to the north and Madison to the south, with Thompson Falls almost on the Washington state line on the west. In the state of Washington, the Puget Sound Traction, Light & Power Co. controls all the territory from British Columbia to Puyallup south, covering such important cities and towns as Seattle, Tacoma, Everett, Bellingham, and hundreds of smaller towns and communities. In California the Pacific Gas & Electric Co. sweep that entire region north of Colgate to De Saba and east of the mountain ranges, and extends south to Fresno and Tulare, while farther south the Huntington properties and the Bylesby properties in San Diego serve the whole of southern California.

## ELECTRIFYING A BIG RAILWAY SYSTEM.

Reference has been made to the electrification of the Butte, Anaconda & Pacific railway. This line has been operating without a hitch since May, 1913, and connects the mines at Butte with Anaconda and transports daily approximately 15,000 tons of freight and several hundred passengers. The results thus far attained, it is believed mark a new era in railroading over the heavy grades in the mountain ranges of the west, and demonstrate the economy and practicability of using hydro-electric power in railroad operations wherever it may be needed. So impressed was the management of the

St. Paul railway with the adaptability of electric power to the operation of trains that in 1912 contracts were made between the railroad company and the Montana Power Co. for electrification of about 430 miles of the main track of the transcontinental line over the Rocky mountain and Bitter Root mountain divisions from Harlowtown, Mont., to Avery, Idaho.

Approximately four years more will be required for the execution of this contract and in the meanwhile the Montana Power Co. is proceeding with the development of the Great Falls of the Missouri, with a capacity of 80,000 h. p., and of the Thompson Falls, of Clark's Fork of the Columbia, with a capacity of 40,000 h. p. Railway engineers are intensely interested in this departure, and are watching the results, for the successful application of electricity as motive power in the case of the St. Paul may spell the complete change of railway motive power from steam to electricity throughout the United States wherever feasible.

## PUGET SOUND AND PACIFIC WORKS.

Next in importance to the work being accomplished by the Montana Power Co. are the enterprises of the Puget Sound and the Pacific electric companies. In the case of these two latter companies, the development which they are bringing deals not so much with railway operations as with industrial expansion. The Puget Sound company has wonderfully developed the Puget Sound country. Its transmission lines furnish power and light for nearly all towns along the sound and inland 40 to 50 miles.

The population served exceeds at the present time over 400,000 persons, and this growth can be better realized when a glance is taken at the census of 1900 and 1910. Citing only the most important cities: Seattle in that period has grown from a city of 80,670 to 247,190; Tacoma from 37,714 to 88,743, Bellingham from 11,062 to 24,298, and Everett from 7,800 to 25,000. Scores of other towns which did not exist in 1900, or which contained populations of a few scores, are now thriving communities of 2,500 to 15,000. The Puget Sound Traction, Light & Power Co. owns the physical properties formerly owned by the Seattle-Tacoma Power Co., the Pacific Coast Power Co., the Seattle Electric Co., the Puget Sound Power Co., the Whatcom County Railway & Power Co. and the Pacific Northwest Traction Co. Its generating plants have a present installed capacity of 190,000 h. p., of which 79,000 is hydro-electric.

## RECORD OF PROSPEROUS BUSINESS.

Net revenues are steadily increasing with the constant accretion of population, and the increasingly large numbers of clients served. Earnings of Pacific Gas & Electric during the years from 1906 to 1910 increased 59.03 gross and 31.26 net. The latter rate has been maintained in the last three years. The Puget Sound corporation shows increased earnings in the last four years of 37.9 per cent gross and 29.1 per cent net, and the Montana Power Co. shows net exceeding 31 per cent. NO VEXATIOUS RESTRICTIONS have been placed in the path of these corporations by either the states themselves or individuals. The result has been a steady and constant expansion of the territory served with equally steady and constant earning power. Not a single bond has been defaulted nor have dividends on preferred shares ever been passed.

## CONTRACT FOR ELECTRIC WORK ON SKYSCRAPERS.

One of the largest electric contracts of the season was awarded to the Sterling Electric Co., 31-33 S. 5th st., Minneapolis, the contract for that part of the electric equipment of the Soo-First National 20-story office building, which is to be supplied in this city. Some machinery will be bought out of town. The Soo-First National will be one of the finest office buildings, not only in the West, but the country. The owners are going to provide the best, and make all possible local contracts.

## PLANS AT BUILDERS' EXCHANGE, MINNEAPOLIS.

Plans on file April 20, at the Builders' Exchange, Minneapolis, school, Wilmet, S. D., bids open April 20; theater, Windom, Minn., April 20; school, Virginia, Minn., April 22; chemistry building, Vermillion, S. D., April 22; mechanical equipment hotel, Bemidji, Minn., April 22; mechanical equipment, heating store, St. Cloud, Minn., April 22; townsite, Minnesota Steel Co., Duluth, Minn., April 24; bank, Grafton, N. D., April 25; armory, Fairmont, Minn., April 27; cottages 8 and 9, Anoka, Minn., April 27, cottages 8 and 9, mechanical

equipment, Anoka, Minn., April 27; state asylum, Hastings, Minn., April 27; high school, Arcadia, Wis., April 28; store, Frank Fandel, St. Cloud, Minn., April 28; decorating court house, Pipestone, Minn., April 28, bank, Grand Forks, N. D., April 29, bank, Shakopee, Minn., April 30; theater, Sauk Center, Minn., May 2; Masonic temple, Watertown, S. D., May 2; Ardock school, Ardock, N. D., May 4; church, Crookston, Minn., May 5; postoffice, Wahpeton, N. D., May 5; church, Dawson, Minn., May 6; school, Dahlen, N. D., May 11; school, bathgate, N. D., May 18; school, Sioux Falls, S. D., May 21; hotel, Rochester, Minn.; bank, Plentywood, Mont.; city hospital, Menomonie, Wis.; brick building, Carthage, S. D.; Masonic temple, Howard, S. D.

Bids in: Garage, Fargo, N. D.; bank and business building, Comfrey, Minn., school, St. Cloud, Minn., bank Beltrami, Minn., cottages 8 and 9, Anoka, Minn., bids rejected; cottage 8 and 9, Anoka, Minn., mechanical equipment, bids rejected.

Contracts awarded: Church, Delano, Minn., D. Cebura, Delano, Wm. Penn school, Johnson Construction Co., Minneapolis, Wm. Penn school, mechanical equipment, Johnson Construction Co., Minneapolis.





#### NEW SOO STATION, THIEF RIVER FALLS.

In a recent issue of the News-Press of Thief River Falls, Minn., appeared the above picture of the new modern, fire-proof, 60,000 station, which the M., St. P. & S. S. M. road has just built there, showing thereby its appreciation of a live town. The station is built of brick and tile, 140x50, with a solid copper panel roof. The interior finish on the side walls is a tan glazed brick up about nine feet, with an oak coping, and above this the walls are in plaster, sand float finish and stenciled. The floors of the lower story are terazza and the upper floors, are a concrete slab eighteen inches thick, absolutely precluding any noise from the offices which will be in the second story. The superintendent's office and the offices of the dispatchers and other employees will occupy the entire

upper floors. The main waiting room on the ground floor is 80x50 feet. The furniture for the waiting rooms will be in antique oak and is now being manufactured by Smith & Wyman of Minneapolis. It will be of heavy design and will be so constructed as to permit of ferns and vases being placed on the tops of the massive benches, which will be about five feet high.

The depot is the finest on the entire Soo system with the exception of the depot at Duluth, and will indeed be a credit to the city and one of which they may feel justly proud. The depot was ready for occupancy in March. William M. Kenyon and Maurice F. Maine, architects, Metropolitan block, Minneapolis, furnished the plans.

#### LORD AND TAYLOR BUILDING, NEW YORK. (From Our New York Correspondent.)



New York has another beautiful, new, modern commercial structure, Lord & Taylor department store, Starrett & Van Vleck, architects, New York. It is a 10-story structure of steel skeleton construction with frontage on three streets, 5th av., 38th and 39th sts. The building is Italian renaissance in design, with adaptations to meet requirements. The two lower stories, forming the base, and the two upper stories consisting of a colonnade of engaged Corinthian columns, are of gray limestone, and the intervening stories of soft gray brick varying slightly in shade from the stone. A widely projecting renaissance cornice of copper crowns the whole. Projecting balconies give character and interest to the design.

Attractive display windows occupy the first and second story fronts, a feature being the wide carriage entrance on 38th st., covered by a marquis, shown in the illustration.

A well worked out delivery system allows the delivery cars to run down an incline from 38th st., loaded in the basement and to leave the building on the opposite side.

Indirect lighting is used to illuminate the building at night, light being thrown upon the upper stories between

columns in a most effective way. The interior lighting system is semi-direct throughout.

There are twenty spacious, well designed standard elevators. The 5th av. display windows have an elevator system by means of which the platforms on which the goods



are displayed can be lowered to the basement to be dressed and then elevated to the street level.

The interior shows simplicity and good taste throughout. Daylight enters from all four sides and the white and cream colored walls give a light, cheery effect.

Exquisitely designed tea rooms and foyer occupy the top floor.

The store offers not only every convenience to shoppers but also many unique and interesting features to the visitor and sight-seer.

—R. C. C.



# The Turner Mushroom System Reinforced Concrete Flat Slab Construction

[Patented]



This is one of the many new manufactories in Minneapolis, the McLoughlin-Gormley-King Spice factory, southeast; plans by Bell, Tyrie & Chapman; R. J. Cheney Co., general contractors; Turner mushroom system of reinforced concrete used.



Interior of the McLoughlin-Gormley-King Spice Factory.  
Minneapolis, Minn.

## Important Decision

By a decision just rendered in a suit brought on a patent previously granted to cover wire netting in the lower layer of the slab, an entirely different device from that covered in Mr. Turner's patent No. 1,003,384, the pretended claims of Mr. Turner's imitators have been set aside.

It was the apparent belief of the plaintiff, acting upon the advice of his attorneys, that under the patent he had bought, although it had not been tried commercially, it would be possible to construct flat slab buildings after the manner of Turner and escape paying a royalty to Turner, and perhaps force Turner to pay tribute to him.

The Mushroom System is the original reinforced concrete flat slab system, and is the only flat slab on the market today. C. A. P. Turner, the inventor of the **Mushroom Flat Slab System**, has patents which are broad and cover the basic elements of the **Circumferential Cantilever Flat Slab Construction**.

Mr. Turner has in his employ at the present time five of the best known and most able firms of patent attorneys in the United States. All infringers are being prosecuted; therefore,

**OWNERS PROTECT YOUR INTERESTS** by demanding that your flat slab designers furnish an infringement bond of an amount equal to the cost of your building, for the reason that the patent monopoly covers the right to use. Demand a bond for a five-year term and make yourself safe.

## Record

The number of square feet of Mushroom System floors built each year has practically doubled that of the preceding year. This gain has been consistent since the flat slab was first originated.

There has never been an accident or failure in the erection of between one and two thousand Mushroom System buildings.

## Service

Let our Engineering and Estimating Departments co-operate with you when it comes to reinforced concrete.

The economy, permanence and neat appearance of the **MUSHROOM SYSTEM** assures satisfaction with the completed building.

For designs, estimates and suggestions embodying the best of our long experience, you have only to consult our Engineers, without any obligation on your part.

Make the concrete construction in your building secure by utilizing the long experience, right design and efficient service behind the Mushroom System.

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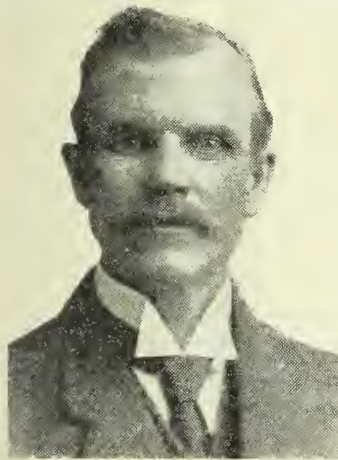


# PERSONAL AND GENERAL NEWS.

Doings of the Northwest this Week Boiled Down for Busy Readers

## PERSONAL AND GENERAL.

G. Silvester, of Calgary, the new president of the Alberta Association of Builders' Exchanges, is a typical progressive citizen of Western Canada. He is vice president of the Calgary Builders' Exchange and manager of the Calgary Silicate Pressed Brick Co., Ltd.; thirty years ago he came from the city of Toronto and worked in the agricultural implement business for the A. Harris Son & Co., of Brantford, Ont. He was assistant commissioner at Chicago for the world's fair in 1893 and then returned to the West. He entered business for himself in Manitoba as a hardware dealer and a year later added lumber and fuel. He sold out in 1905 and went to Calgary as president and general manager of the Calgary Lime & Cement Co. In 1910 he formed the present company, which bought out the lime and cement company. He was made secretary-treasurer and managing director of the new company. He still holds those positions. He is president of the Silvester Willson Co., Ltd., of Winnipeg, and director of the Keremeos Land Co., who own some thousands of acres of the best fruit lands in British Columbia. In 1911 he joined the American Sand Lime Brick Association and the following year was elected as a member of the executive body. He is a grain grower, having successfully farmed at Brandon, Man., for twenty-five years, and in Saskatchewan for five years, besides carrying on a fruit farm at Keremeos, B. C., for eight years. About five years ago Calgary contractors formed a builders' exchange. Mr. Silvester was one of the first officers. Three years ago he was a delegate to the annual convention of Builders' Exchanges of Canada at Winnipeg and two years ago a delegate to the annual convention of Toronto. A year ago the same body held their annual convention in Calgary and thought the organization was getting unwieldy, with distances too great. It was divided, making Fort Williams the dividing point, and Mr. Silvester was elected first vice president. Last February the first convention of the western association was held at Edmonton. It proved a successful convention and pleasant gathering. Four years ago the Alberta Provincial Association of Builders' Exchanges was formed and the first meeting was at Lethbridge; two years ago at Edmonton; this year at Medicine Hat, where Mr. Silvester was elected president.



Mr. Silvester says: "The province of British Columbia has not come in with us yet, but the contractors there now have an exchange in Vancouver and have expressed a desire to join our Western Association of Builders' Exchanges. I had the pleasure of visiting their exchange last month. They have an excellent and progressive president and secretary, and their future is thereby assured. Our local exchange has something over one hundred members in good standing. C. P. Reilly, a contractor, is our president and C. Rankin our secretary, and they are both live wires; active for the good and welfare of our exchange. We have a good assembly room where all late trade books are found, and the secretary is ever ready to give information.

Discovered,—a dam! State Auditor Iverson will send a man to Kettle River Falls to investigate the dam being built at that place by the Minnesota and Ontario Power Co. No notice of the work has ever been received by the auditor from the company and nothing was known of the matter until Thursday, when a state forest ranger reported that construction work was begun. The dam will flood it is said, at least 25,000 acres of valuable state land.

THE RESULT.—"Why was Greece so anxious to get hold of Crete?" "I hope it was for con Crete purposes." (Stray item, parentage unknown.)

The Reed Plumbing & Heating Co. is being organized at Davenport, Iowa, to carry on a plumbing and heating business, capital \$10,000; officers: president, H. F. Schulze, vice president, E. G. Reed; secretary and treasurer, M. V. Schulze.

The Walsh Construction Co. at Davenport, Iowa, has increased its capital stock to \$500,000. P. T. Walsh is president, H. C. Kahl and T. J. Walsh vice presidents and M. E. Fitzgerald, secretary and treasurer.

Thomas Cash, Omaha, contractor, who died recently, was for many years with the Phelan & Shirley Contracting Co.

## ARCHITECTS AND ENGINEERS.

The Minneapolis Engineers' society held one of its liveliest and most interesting meetings Monday night. The topic was faster transportation by trolley between Minneapolis and St. Paul. E. P. Burch gave a valuable talk in which he outlined several propositions, including faster time on the present trolley tracks; elevation of track part of the distance, electric cars on one of the steam roads between the two cities; and an underground line, with a tunnel large enough to accommodate not only electric cars but also the steam trains. This tunnel line would be from center to center of the cities. It might be building 20 years to lighten the expense burden on taxpayers. The talk was illustrated with many maps and sketches. It was followed by a brisk discussion.

J. C. Lutz, formerly with L. F. Dow Co. of St. Paul, as bank fixture designer and architect, has moved to Thief River Falls, Minn., and opened an architectural office. Mr. Lutz has plans under way for two large business buildings in Thief River Falls and another out of the city. All catalogs and samples of building materials sent to him will be greatly appreciated.

Architect H. A. Sullwold, 1011 Commerce building, St. Paul, will move to the Studio building, 4th and Market sts., into larger quarters. The Studio building is undergoing a thorough remodeling and altering. Mr. Sullwold will be pleased to receive new samples and catalogs of all kinds of building material after May 1.

The Central States Engineering Co. is being organized at Muscatine, Iowa. C. H. Young, city engineer, is president and G. Halbfass, managing engineer. The company will build sewers, do paving, build water works, bridges, railways and general engineering work.

Fred W. Akins of Humansville, Mo., arrived at Lewistown, Mont., recently as engineer for the Winnet Irrigation Co. of Lewistown, to take full charge of their work. Mr. Akins was in the employ of the government for a number of years and in Porto Rico on irrigation work. He will assemble his crew for the summer's work soon. Mr. Akins is a nephew of J. H. Akins of Lewistown.

Duluth architects, builders and engineers attended a lecture Monday evening at the Commercial club by R. A. Plumb of Detroit on "Waterproofing and Dampproofing of Structural Concrete." Mr. Plumb is an expert on the subject of concrete and his address was unusually interesting.

Augustin F. Knight, oldest Minnesota architect, died in St. Paul, Friday April 17, aged 83. He was graduated from the Troy Polytechnic school, Troy, N. Y. He was a veteran of the Indian war of 1860.

A. K. Fredericks for three years chief engineer for the Rogers Brown Ore Co., at Crosby, Minn., has gone to Cleveland, Ohio his former home. He is succeeded by R. L. Wahl, of the engineering department of the company.

## BIG ORDER FOR WHITE ENAMEL REFRIGERATORS.

The White Enamel Refrigerator Co. of St. Paul, has just been awarded the refrigerator contract for the new Black Hawk hotel, now in course of construction at Davenport, Iowa. In placing this order for refrigerators, President Miller of the Miller Hotel Co., stated that he was simply carrying out his original policy of equipping this hotel with the very best of everything that could be purchased.

All the kitchen refrigerators, as well as the large serving refrigerators in the banquet hall will have white enamel exteriors, nickel-plated hardware and the interior linings will be of genuine porcelain enameled steel.

Davenport has long been regarded by many as the best hotel town in Iowa, and upon the completion of the new Black Hawk the Hawkeye state will have another hotel of which it can be justly proud.



# CONSTRUCTION & CONTRACT NEWS

OF SPECIAL VALUE TO ENGINEERS, CONTRACTORS, BUILDERS AND MANUFACTURERS

## MINNEAPOLIS, MINN.

Office: 912 Lumber Exchange.

Phones: N. W. 3902. T. S. 2194.

Please telephone news not later than Wednesday.

Items marked with asterisks not in Daily Sheets.

### BUILDING PERMITS.

M. T. Bolstad, 3050-52 18th av. S., 2-story brick veneer flats (5); H. C. Anderson, builder.....	7,000
F. N. Chaffee, 1401-03 Yale place, 3-story brick apartments (31); contract not let.....	45,000
Everett E. Addy, owner and builder, 5017 S. Lyndale av., 1½-story brick veneer dwl.....	3,200
Everett E. Addy, owner and builder, 5017 S. Lyndale av., 1½-story frame dwl.....	3,000
Carl A. Lund, 3504-06 16th av. S., 2-story plaster veneer duplex; Alfred D. Johnson, builder.....	4,800
L. C. Kaibel, 2701 N. Girard av., 1½-story plaster veneer dwl.; John Myhr, builder.....	2,800
F. F. Meinke, 3153 21st av. S., 1½-story plaster veneer dwl.; John Atland, builder.....	2,300
P. C. Deming, 2640 Hayes st. NE., 1½-story frame dwl.; Dawson Bros., builders.....	2,200
N. W. Telephone Exchange Co., 1111 W. 22d st., 2-story brick, tile, reinforced concrete and steel exchange building; Madsen Bros., builders.....	32,000
Mrs. Josephine Anderson, 3149 Harriet av., 1½-story plaster veneer dwl.....	2,400
Wm. Weickling, 4300-02 Bryant av. S., 1-story brick veneer store.....	2,500
August B. Nelson, 4943 2d av. S., 1½-story plaster veneer dwl.....	2,000
James C. Wilson, 3439 Longfellow av., 1½-story frame dwl. H. H. Placke, 1900 3d av. S., 3-story brick flats (18).....	2,200
Mrs. L. P. Blair, 4228 Linden Hills boul., 2-story frame addition to dwl., interior alterations.....	35,000
Edw. Larson, 2419 Buchanan st. NE., 2-story plaster veneer duplex; Otto Franzen, builder.....	2,300
A. S. Keyes, 4460 Lake Harriet boul., 1½-story tile plaster veneer dwl.....	4,500
Joseph M. Baltuff Building Co., owners and builders, 3852 1st av. S., 1-story frame dwl.....	2,000
Joseph M. Baltuff Building Co., owners and builders, 4208 S. Beard av., 1-story frame dwl.....	2,520
Joseph M. Baltuff Building Co., owners and builders, 1905 19th av. NE., 1-story frame dwl.....	2,300
Perry Welch, 4112 S. Sheridan av., 1½-story frame dwl.; Albert Anderson, builder.....	2,125
Carl H. Olson, 811 28th av. S., 2-story plaster veneer duplex.....	3,500
F. E. Graves, 2520-22 Nicollet av., 1-story brick addition to garage.....	4,500
Math Hakkarainen, 237 N. Morgan av., 2-story plaster veneer duplex; John Pietarila, builder.....	3,000
John H. Tuominen, 253 N. Humboldt av., 1½-story frame dwl.; John Pietarila, builder.....	3,000
May Adams, 2900 11th av. S., 1-story frame dwl.; McAllister & Cooper, builders.....	2,000
E. L. Hessel, 4410 Pleasant av., 1½-story plaster veneer dwl. James Lunnon, 3105-07 4th av. S., 2-story plaster veneer flats (4); W. P. Hultgren, builder.....	2,500
N. W. Fuel Co., Aldrich av. S. near 28th and 29th st., reinforced concrete coal-pocket; contract not let.....	5,550
C. M. Robertson, 902 Franklin terrace, 1½-story brick veneer dwl.; Gust Alm, builder.....	15,000
Clyde E. Pratt, 3333 Grand av., 2-story plaster veneer flats (4).....	6,000
Peter Sundquist, 3020-22 Clinton av., 2-story plaster veneer flats (4).....	8,000
Carl A. Erickson and Olof Nordin, 3133-35 Bloom av., 2-story brick veneer flats (4).....	6,500
Peters Home Building Co., owners and builders, 2414 Grand st. NE., 1-story frame dwl.....	8,500
Peters Home Building Co., owners and builders, 5038 Nokomis av., 2-story frame dwl.....	2,200
Peters Home Building Co., owners and builders, 3314 N. Colfax av., 1½-story frame dwl.....	2,800
Central Wood Turning Co., 610 Main st. NE., 2-story brick addition to factory; W. E. Peterson, builder.....	2,400
David Snyder, 1030 N. Irving av., 2-story plaster veneer duplex; W. E. Peterson, builder.....	2,000
John Peterson, 2847 31st av. S., 2-story plaster veneer duplex.....	3,500
Sacred Heart of Jesus Polish Catholic Church, 2200 5th st. NE., 1-story frame church; P. C. Giguere & Son, builders.....	3,400
E. G. Walton Agency, owners and builders, 3749 34th av. S., 1-story frame dwl.....	6,000
E. G. Walton Agency, owners and builders, 3132 42d av. S., 1-story frame dwl.....	2,100
Donata Paslueci, 718 4th st. NE., 1½-story brick veneer and plaster veneer dwl.....	2,500
Mauritz Anderson, 3741 11th av. S., 1-story frame dwl.....	2,000
G. S. Cavanaugh, 3213 S. Aldrich av., 2-story plaster veneer addition, change dwl. into duplex; H. J. Radle, builder.....	2,500
Wm. Mapavanel, 2103 6th st. NE., 2-story brick veneer dwl.; contract not let.....	2,800
T. K. Kelly Investment Co., inc., 2-14 W. 26th st. and 2548-52 Nicollet av., 2-story brick stores (8), offices and flats (13); Madsen Bros., builders.....	2,500
Peter Molin, 3800-02 Portland av., 2-story brick veneer flats (4).....	50,000
	7,000

J. W. Butler, 4554 16th av. S., 1-story plaster veneer dwl..	2,000
Mrs. Effie Burgam, 1225 5th st. SE., 1-story frame addition, alterations, sleeping porch; E. C. Bruce, builder.....	2,000
Paul and Mary Wines, 1701-03 4th st. NE., 2-story brick store and flat building.....	6,000
Henry J. Keuhm, 2339 N. Upton av., 1-story frame dwl.; Geo. W. Porter, builder.....	2,000
City of Minneapolis, Emerson av. N. near 19th av. N., 1-story brick, steel and reinforced concrete addition to library; J. O. Wardell, builder.....	8,000
C. M. Stafford, 2412 W. Lake of the Isles boul., 2-story frame dwl., 1-story frame garage; Gust A. Johnson, builder	12,000
Eliza P. Evans, 1010 E. 37th st., 1½-story plaster veneer dwl.....	3,000

J. E. Nason, architect, Corn Exchange building, is preparing plans for a Masonic temple, at Willmar, Minn., 50x75, brick, 2-story and basement, auditorium in basement; assembly room, kitchen, smoking room, first floor; lodge rooms, etc., second floor; steam heat, plumbing, electric light, telephone system, electric bells, two brick fireplaces, steel ceiling, oak floors and trim, skylights, pitch and gravel roof, art and plate glass, marquis, \$30,000; plans ready April 24, owner will let work.

Bids will be received in the office of the city purchasing agent, 217 City Hall, till Monday Apr. 27, 1914, 3:00 o'clock p. m., for furnishing the city 500 tons of refined asphalt and 40,000 gallons of flux or 500 tons of asphaltic cement for paving during the season of 1914. Complete specifications are on file in the office of the city purchasing agent. A certified check in the amount of \$250, payable to C. A. Bloomquist, city treasurer, must accompany each proposal.

\*F. W. Kenney, architect, Plymouth building, will have plans out next week for 1-story, brick and stone bank building, Montevideo, Minn., for C. H. Budd; 24x60, basement finished for barber shop, vacuum steam heat, hardwood finish, vault and three fireproof doors. Owner and architect taking bids. Mr. Kenney also has plans for a modern residence, Minneapolis, for W. F. Woods, plaster exterior, bungalow; owner and architect taking figures.

Contracts awarded: church, 12th and University av., architects, Kees & Colburn, Donaldson building; for Fifth Church of Christ Scientist; H. N. Leighton & Co., 127 S. 7th st., contractors; structural iron let to American Bridge Co., 7th av. S. and 2d st.; cut stone to Jones & Hartley, 826 17th st. S.; slate roofing to Selden Roofing & Cornice Co., 76 Western av.; general contractors getting bids on plastering and painting.

Plans out May 1 for Fairview hospital (kitchen and dining room): 4-story and basement, 86x196, 2240 6th st.; architects, Hewitt & Brown, 716 4th av. S.; owner United Church hospital association; Prof. E. K. Johnson, St. Anthony park, St. Paul, O. P. Holmer, president, 616 E. 18th st., Minneapolis; face and common brick, terra cotta, reinforced concrete, metal roof, metal skylight, structural and ornamental iron.

Simon and Edna D. Kruse, owners of the Radisson hotel, who have purchased Glenn Morris Inn, at Christmas Lake, and 50-acres, for \$100,000, will improve the property at once; probably a conservatory with flower garden and sunken garden and other buildings; property includes six bungalows, private residence and other buildings making a total of fifteen.

\*Kirby T. Snyder, architect, Plymouth building announces general contract let to Madsen Bros., Plymouth building, for T. K. Kelly Investment Co.'s business building, 26th and Nicollet; nine stores, fifteen flats, four suites of offices; plumbing and heating not let; Adams & Elting, varnishes and stains; Anderson Northwestern Bedding Co., wall beds.

E. R. Ludwig, architect, 431 Andrus, will have plans out this week for church, (auditorium seating 380, kitchen and dining room), 90x68, \$20,000; Malchon & Orlin sts; owner, Prospect Park M. E. church, care C. H. Ramsel, 812 N. Y. Life building, brick, stucco, shingle roof, structural iron, rolling partitions, screen, sash ventilators, heating undecided.

Glenn L. Saxton, architect, Plymouth building, has furnished plans for a frame bungalow, B. T., 28x46; \$3,600, Robert Schreiber, Glenwood City, Wis.; John J. Kintzinger, Dubuque, Iowa, frame duplex, 26x50, \$6,000; H. C. Nordlie, Fergus Falls, frame residence, \$3,800; W. L. West, Brookings, S. D., frame bungalow, 26x38, \$3,000.

\*John V. Koester, architect, Lumber Exchange, has prepared plans for modern residence, 20th and Emerson, 2½-story, brick veneer and stucco, for Mr. Weelnitz, 1413 18th av. N.; 26x32, hardwood floors and trim, tile bath and vesti-



bule, sun rooms, sleeping porch, hot water heat, fireplace, shingle or slate roof, \$6,000.

\*John V. Kester, architect, Lumber Exchange, has completed plans for store building, 26th and Lyndale, for Allen & Co.; 49x80, two stores, 1-story, foundation for three, reinforced concrete floors, brick walls, plate glass fronts, steam heat, hardwood finish, structural iron, wiring, gravel roof, owner lets work.

John Pietarila, 215 Humboldt av. N., has the contract for a duplex, 237 N. Morgan, 26x40, plaster veneer, concrete foundation, plumbing, wiring, \$3,000, for Math. Hokkarainen; also contract for dwelling, 253 N. Humboldt, for John H. Tuominen, 214 Humboldt av. N., 24x28, 1½-story, frame, concrete foundation.

\*C. B. Stravs, architect, Security building, has prepared plans for a modern residence, 3818 Upton, for Aug. Buhler; 1½-story, frame, modern, hot water heat, brick mantel, kiln cement bath; M. A. Thompson, contractor, 2731 14th av. S.; Richard Mullen, plastering, 2204 Dupont av. N.

\*Haley & Johnson, architects, Plymouth building, have prepared plans for a residence, Rochester, Minn., for H. A. Brown; 30x36, 2-story and attic, two baths, hot water heat, siding, oak and birch finish, wiring, tile bath and vestibule, architect and owner will take figures.

\*C. E. Bell, architect, Security Bank building, has completed plans for Dartt Manufacturing Co., factory, Waterloo, Iowa. Bids in May 12; 2-story, brick and steel, \$35,000. Owner will take figures; plumbing, heating, wiring in separate contracts let May 12.

\*Long, Lamoreaux & Long, architects, 830 Henenpin, have prepared plans for a duplex, 2d av. SE. and 5th st., for F. A. Fredericks, 717 NE. 4th; brick, reinforced concrete porch floors, modern, hot water heat, 34x49; owner taking figures.

Glenn L. Saxton, architect, Plymouth building, has furnished plans for a frame bungalow, B. T., 26x36, for L. C. Haven, 696 Tuscarora, St. Paul, \$3,600; L. A. Castor, 3833 Cedar, Minneapolis, frame bungalow, 28x36, \$3,200.

Apartment building for 31-families, brick, 3-story, will be built by S. N. Chaffee; plans by Lindstrom & Almars, architects, Auditorium block, 42x144, modern, steam heat, electric light, \$45,000; 1401-03 Yale Place, contract not let.

Haugen & Newstrom, architects, Iron building, 4th and 4th S., are preparing plans for a garage at Excelsior, Lake Minnetonka, for A. E. Phillips, 1908 Pleasant av., 63x80, 1-story and basement, brick, cement floor, wash room.

\*Haley & Johnson, architects, Plymouth building, have prepared plans for remodeling Northwestern Lutheran parsonage, Blooming Prairie, Minn.; new finish, sleeping porch, screen porch; repairs to heating plant.

Otto Franzen, 4134 Emerson av. N., has contract for a duplex, 2419 Buchanan, for Edward Larson, 26x46, plaster veneer, concrete foundation, hot water heat, modern, \$4,500.

Preparations are being made for harbor improvements, river bank near Washington av. bridge; plans for sea-wall and municipal wharves are being made by city engineer.

Work has started on addition to heating plant, agricultural college, U. of M., cost \$25,000; completed Sept. 1; to be ready for new buildings on farm school campus next fall.

Perry Welch will build a modern dwelling at 4112 S. Sheridan, 24x28, 1½-story, frame, concrete foundation, electric light, hot water heat; \$3,500; Albert Anderson, builder.

Bids receive by state university, G. H. Hayes, controller, until 2 p. m., April 27, for horse barn, university farm; plans at Builders' Exchanges, St. Paul and Minneapolis.

Seton Guild will have a summer residence at Minnetonka, Phelps Island; contract awarded; 44x35, bungalow, large porches; address Guild at 206, 4th st. S.

Tentative plans for a lagoon south of Lake Calhoun in the lowland towards Harriet are being considered by park board; land and work to cost \$100,000.

Figures being taken on Oster Realty Co. building, Franklin and 11th av. S., will be in May 1, Haugen & Newstrom, architects, Iron building, 4th and 4th S.

Plans for a new Pillsbury settlement house, 4th and 16th av. S., are being developed and steps to build may be taken soon; F. R. Neybel, head resident.

Bids received till April 27, 3 p. m., for furnishing 750 tons paving pitch to city; check for \$200; address K. E. Alexander, city purchasing agent, City Hall.

Carl A. Olson will build a duplex at 811 28th av. S., 24x44, plaster veneer, concrete and stone foundation, hot water heat, modern; \$4,500; day labor.

\*C. Howard Parsons, architect, Phoenix building, had bids in April 24 for plumbing, heating and wiring; school, Hampden, Iowa.

\*Plans wanted by park board, Waseca, Minn., for parkway and landscaping, one block. Address H. Habbein, Park Board, Waseca.

## ST. PAUL, MINN.

404 Scandinavian American Bank Building.  
Phone: N. W. Cedar 1683.  
Mail or telephone news not later than Wednesday.

Items marked with asterisks not run in Daily Sheets.

### BUILDING PERMITS.

Peter M. Cierina, 835 Cook, 1½-story brick veneer dwl., Jenks near Forest; S. A. Lukaszewski, builder.....	2,500
C. A. Cierina, 835 Cook, 1½-story brick and veneer dwl., Jenks near Mendota; S. A. Lukaszewski, builder	2,600
Olaf Edwards, builder, 1½-story frame dwl., Manomin near Belmont	2,000
D. S. Arquist, Minneapolis, 1½-story frame dwl., Blair near Aldine; W. H. Field, builder.....	2,100
City of St. Paul, 2-story tile and concrete, Como park; Edward Bjorklund, builder.....	7,000
Harry J. McCarthy, builder, 1651 Carroll, 1½-story frame dwl., Carroll near Fry.....	2,000
Edmund G. Walton Agency, builder, 1½-story frame dwl., Beach near Atlanta.....	2,250
J. E. Hobrecker, builder, 224 Virginia av., 1-story frame dwl., Grand near Cleveland.....	2,000
Hay O. Bye, builder, 593 Summit, concrete foundation, Summit near Grotto.....	4,000
F. Gerard, State Farm, 2-story frame dwl., Buford near Gibbs.....	2,000
J. A. Rundquist, builder, 1479 Hague, 1½-story frame dwl., Lafond near Snelling.....	2,500
Johnson & Carlson, builder, 1430 Edmund, 1½-story frame dwl., Edmund near Albert.....	2,100
Francis J. Connell, 1726 Summit, 1-story brick and steel garage, 309 W. 3d st. near College; Chas. Skooglund, builder.....	7,500
Mrs. Franklin T. Revord, 626 Bates, 2-story dwl., Goodrich near Saratoga; Gust A. Anderson, builder.....	2,800
University Club, 4-story brick, stone and concrete club house, Washington near 3d; Butler Bros., builders.....	130,000
Boston Grand Floor Rent Trust, 2-story brick and steel store, 117 Robert near 3d; Chas. Skooglund, builder.....	10,000
C. O. Johnson, builder, 726 Marshall, 1½-story frame dwl., Goodrich near Syndicate.....	2,000
C. Cardle, N. W. Robie 14, 1½-story frame dwl., Ottawa C. Cardle, 1½-story frame dwl., Ottawa near Winona; Raak Bros., builders.....	2,325
L. L. Erickson, builder, 1924 Carroll, 1½-story frame dwl., Dayton near Wheeler.....	2,100
G. Foran, builder, 569 Pascal, 2-story frame dwl., Edwards near Simpson.....	2,500
Mark Rychnicki, builder, 709 Farrington, 2-story brick and concrete dwl., Como near Farrington.....	4,000
E. G. Walton Agency, builder, 1½-story dwl., Edmund near Pascal.....	2,200
E. G. Walton Agency, builders, 1½-story dwl., Victoria near Hatch.....	2,500
Phillip O'Neill, 416 Robert, 2-story frame flats (4), Sherburne near Milton; Rydeen & Haney, builders.....	5,000
E. G. Walton Agency, builder, 2-story dwl., Fairmont near Prior.....	3,600
Leslie F. Nason, builder, 1237 Raymond, 1½-story frame dwl., Como av. W. near Raymond.....	3,000
L. Goodkind, St. Paul Hotel, 2½-story stone dwl., 40 Crocus pl.; F. C. Norlander, builder.....	20,000

Sub-contracts model school, normal, Chas. Skooglund, general contractor; steel, Crown Iron Works; reinforcing steel, Corr-Bar, mill work, Gribben Lumber Co.; brick, local; sub-contract, 3d and Robert, Chas. Skooglund, general contractor; mill work, Berglund Lumber Co.; glass, Pittsburgh; Constans building, Robert st.; steel, Twin City I. & W.; paving, Rossness & Simms; glass, Pittsburgh; mill work, Berglund Lumber Co.

Buechner & Orth, architects, Shubert building, will open figures April 29, on plumbing, heating and wiring, of bank building, Grand Forks, N. D.; figures being taken on heating and plumbing; bank building, Glasgow, Mont., figures will be in May 7, instead of May 6 on furniture and fixtures, courthouse, N. D.; general contract, Carling's downtown was given to F. J. Romer Construction Co.

Contracts let on moving picture theater (seating 450); 30x130, \$12,000; Willmar, Minn., Monarch Theater Construction & Supply Co., 230 Shubert building, St. Paul, architects; for Mr. Cary, Jr., Willmar; structural iron to C. Hennecke Co., Milwaukee; asbestos roofing to Johns-Manville Co., Chicago. Architect getting bids on plastering and painting.

Contracts let on theater: Montevideo, Minn., Monarch Theater Construction & Supply Co., contractors, St. Paul; owner, Mr. Starbeck, Montevideo; brick, stone; tar and gravel roofing to Johns-Manville Co., 332 N. Michigan av., Chicago; general contractor desires bids on plastering, painting and electric work.

St. Paul Foundry Co. is furnishing steel for the Commercial garage, 309 W. 3d, for Thomas J. Connell, 1726 Summit; brick and steel, 60x140; plans by Peter J. Linhoff, architect, Germania Life; general contract to Chas. Skooglund, Ryan Annex; lumber contract to St. Croix Manufacturing Co.

The State Bank of Winthrop, Winthrop, Minn., will erect a 1-story bank and store building; plans and designs by A. Moorman & Co., St. Paul, Minn.; bank building will be of Bed-



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COPY RECEIVED up to Friday, 10 a. m., will be published in the paper, delivered to subscribers on Saturday, but should reach the publication office, Lumber Exchange, Minneapolis, earlier in the week, when possible.

LATE NOTICES Friday morning can be transmitted by long distance telephone.

### NOTICE TO CONTRACTORS.

School, Toledo, Iowa.

J. H. Ross, Secretary of the Independent School District of Toledo, Iowa, will receive sealed bids until 2:30 o'clock P. M. on May 4, 1914, for the construction of a new school building, for the installation of a heating and ventilating system, for plumbing and electric wiring for said school building.

Plans and specifications may be obtained of Proudfoot, Bird & Rawson, Architects, Des Moines, Iowa.

### THEATER.

Sauk Center, Minnesota.

Sealed proposals will be received for a Theater, by Mr. J. A. Caughren of Sauk Center, Minnesota, until one o'clock P. M., May 2, 1914, at the Merchants' National Bank of Sauk Center, Minnesota.

All bids must be in strict accordance with the plans and specifications as prepared by Rolland C. Buckley, Architect, St. Cloud, Minn., and must be accompanied by a certified check for five per cent (5%) of the amount of the bid, made payable to J. A. Caughren as evidence that the bidder will enter into contract, if awarded same.

Plans will be on file at the following places after April 18, 1914: The offices of the Architect, St. Cloud; The Builders' Exchanges of Minneapolis and St. Paul, and the Merchants' National Bank of Sauk Center.

Bids will be opened at the same time and place, under like conditions for the steam heating, plumbing, and electric wiring. Owner reserves the right to reject any and all bids.

ROLAND C. BUCKLEY,  
Architect.

(Continued on page 16.)

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ford stone; walls of brick and hollow tile; interior will have fixtures of marble and oak; contracts have been let.

C. A. Pear, architect, Pittsburgh building, prepared plans for a modern residence, Ashland and Milton for Henry Jacke, frame, hot water heat, fire place, composition floor in kitchen, tile bath, asbestos shingles, 2-story, concrete foundation, 28x32, \$6,500; architect will take figures.

E. L. Masqueray, architect, Endicott building, is proceeding with the plans for the \$300,000 cathedral at Winnipeg, Man.; stone; \$100,000 to be spent this year; plans out for heating and plumbing and ventilating, Cathedral school, St. Paul; figures in, April 27.

Proposed Swedish Baptist seminary will be 100x55, on Snelling between Como and Phalen; Bethel academy, Como av., St. Anthony Park, to be sold and building erected near seminary; Rev. G. Arvoid Hagstrum, president, 615 E. Jesamine.

C. H. Johnston, architect, Capital Bank building, has the plans out for exterior only, superstructure Oliver Crosby mansion, on 22-acre tract, Marshall av. and the river; figures being taken, fireproof throughout.

Peter Stenger has contract for large modern residence to be built by Chas. Bechhoefer, plans by Thomas G. Holyoke, architect, Endicott building; painting contract not included in the general.

C. A. Pear, architect, Pittsburg building, will take bids electrical work on flat building, (4 flats) \$11,000; Merriam Park; brick, general contract let to H. J. Frandsen, 510 Rice st.

A. Moorman & Co., St. Paul, Minn., are preparing plans for a 2-story bank and office building for the Farmers' State Bank, Sidney, Mont., will be stone and pressed brick.

Contract for the Mackey Thompson residence, White Bear, Dellwood, was awarded to T. L. Bourquin, White Bear; plans by Thomas G. Holyoke, architect, Endicott building.

Edw. Bjorklund, 784 Como, has contract for the power house, Como Park, for the city, 2-story, tile and brick, 60x102, plans by Toltz Engineering Co., Pioneer building.

S. A. Lukazewski, 1054 Forest, is building a 1½-story barn for himself and two brick veneer dwellings for Peter M. Ciernia, 835 E. Cook, 26x36, modern, on Forest.

Bank buildings will be erected after their plans at Roy, Mont., Winnifred, Mont., and Geraldine, Mont.; plans being prepared by A. Moorman & Co.

A brick store, 22x48, is being built on E. 7th between Frank and Duluth, by E. A. Medels, 1206 Ross; J. M. Lees, builder, 609 E. Como-Phalen.

First car to run on St. Paul Southern Electric Railway has been shipped from Gary; work is rushed to get line ready for opening.

Herzog Iron Works, 1044 E. 7th, is furnishing fire escapes for the 3-story brick, 225 Prescott, Western Synod General hospital.

Dayton's Bluff play ground will be established on property bounded by Hoffman, Maria, Euclid and Hudson; to cost \$25,000.

Nicholas Westby, 131 Concord, has contract for frame garage, for L. W. Newton, Goodrich av.

Fire destroyed dwelling of Frederick Linke, Afton road, \$3,000.

Fire destroyed the dairy of Geo. Till, Montreal and Stewart.

## HEAD OF THE LAKES

Office: 206 Manhattan Building. Telephone: Auto 3036.  
Mail or telephone news not later than Wednesday.

Items marked with asterisks not in Daily Sheets.

### DULUTH.

Arthur Hanford, architect, has plans for \$2,500 bungalow for E. Erickson, Cook and 45th av., also has plans out for house and office for Highland Land Co., at Duluth Heights, brick and stucco; also preparing plans for a \$3,000 stucco house for Jas. Ross, Jay st. and 54th av. E. and a \$4,000 residence to be built in Hunter's Park; same architect has plans out for two houses to be built by Richard McCue on, Cascade square.

Contract let to Burgess Electric Co., 310 W. 1st st., for electric work in residence for G. A. French; general contract held by Otto Johnson, 2615 W. 3d st.; same firm has contract for electric work in residence of C. H. Bagley, 1929 Superior st.; Otto Johnson, general contractor.

Edw. Shurick, architect, prepared plans for bungalow for D. J. Callahan in W. Duluth; same architect awarded contract for heating and plumbing, flat building for Mrs. Margaret Melville, E. 4th st., to J. J. Mullin at \$1,187; general contract probably let this week.

Plans and specifications for proposed addition to Radisson

school at Park Point will be prepared by students in manual training department of Duluth schools under supervision of an architect; cost from \$3,000 to \$4,000.

Bids on plastering wanted by general contractors, Bowe-Burke Co., Palladio building, for \$60,000 parochial school in West Duluth build by St. James Catholic church; Rev. O. W. Lynch, pastor.

Plans for a 3-story office building to cost \$50,000 or \$60,000 to be built by G. G. Hartley this season on E. Superior st., being made by Crom, Goodhue & Ferguson, architects, N. Y. City.

Vernon J. Price & Co., architects, plans out for theater at Gary to be built by J. E. St. George, costing about \$7,000; frame, stucco, concrete foundation, tar and gravel roof, structural iron.

Arthur Hanford, architect, Sellwood building, has plans in progress for a \$3,000 farm residence for Howard Staacke, care architect; frame, concrete foundation, shingle roof.

A. W. Puck, architect, Torrey building, taking figures for residence for John Markell, 118 E. 2d st.; 30x40, 2-story and basement, \$9,000; hollow tile, shingle roof, stucco.

Vernon J. Price & Co., architects, have completed plans for a residence for Louis Devorshak, 105 Superior st.; 2 story and basement; hollow tile, stucco, shingle roof.

F. G. German, architect, taking figures on Bernard Silberstein residence, 1st st. and 21st av.; face and common brick, hollow tile, shingle roof; cost \$15,000.

Foundations in for 60 more houses being built by Louisberry-McLeod Co. for Minnesota Steel Co.'s model town; first 70 just about completed; 170 in all.

Otto Johnson, contractor, begun work on rear portion of the \$35,000 hotel to be built by Jos. Oreckowsky at 625-627 W. Superior st.; modern, 95 rooms.

Contract to Gustafson & Olson for frame house to be built for Miss Annie M. Fish, Gladstone st. and 42d av. E.; plans by architect, Arthur Hanford.

Contract to Gustafson & Olander for painting residence owned by Louis Walton, 1720½ E. 6th st.; general contractor, Hanford Construction Co.

W. A. Hunt, architect, Lonsdale building, plans for residence for Mrs. W. H. Patterson, \$25,000; face and common brick, stone, shingle roof.

Holstead & Sullivan, architects, plans out for figures for residence for G. W. Turner, in Crescent View park; frame and stucco.

Bids being taken on electric work on \$18,000 residence built by G. S. Lutes, care architects, Bray & Nystrom, Fidelity building.

F. W. Perkins, architect, 1604 Alworth building, plans in progress for \$30,000 residence for Mr. Cokefair.

Edw. Shurick, architect, Torrey building, receiving figures on residence for L. F. Devlin at Lakeside; 30x40, 2-story and basement, \$6,000; face brick, hollow tile, stucco.

American Carbolite Co. will expend \$55,000 in improvements at factory in W. Duluth, work started at once.

### SUPERIOR.

\*J. O. Bach, architect, has prepared plans for a \$10,000 addition to home of Rt. Rev. Bishop, J. M. Koudelka at Central Park and contract will soon be let. Plans also under way for \$100,000 orphanage to be built by Superior diocese, site not yet chosen.

\*Bids being taken by Wangenstein & Giliuson, architects, Duluth, for a 22-room addition to hotel owned by Watler J. Hoch, this city; architects taking bids; brick, tar and gravel roofing; 5 metal skylights.

\*J. J. Flynn, 1324 Hammond av., has general contract for two flat buildings, owned by Fred Barthiaume, care architect Johnson, 314 Truax building; hot water and heating to Staack Bros., 916 Ogden av.

\*E. S. Radcliffe, architect, U. S. Bank building, has plans in progress for three residences for the Superior Home Bank building; frame, stucco, concrete foundation, shingle roof; about \$3,000 each.

\*E. A. Holmes Bros. Co., 911 Banks av., will soon take figures on warehouse, 36x100, 1-story; John O. Bach, Newton building, architect; frame, galvanized iron, tar and gravel roof.

\*General contract to A. Dauplaise, 1111 Tower av., for office building, owned by Itasca Elevator Co., Board of Trade building, Duluth; plumbing to Stack Bros.

\*Nelson & Co., care of E. W. Barber, architect, Hammond building, city, have contract for \$6,000 residence for Dr. C. J. Wallace, 2014 E. 1st st., Duluth; sub-contracts all let.

\*Contract for wrought iron and steel work for Y. M. C. A. building, let to Worden & Allen Co., Milwaukee; other contracts to be awarded.

\*Bids will be taken by architect E. W. Barber on electric work remodeled residence for Siegel Bros., care architect.



# CONTRACTORS BONDS AND EMPLOYERS LIABILITY INSURANCE

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PHOENIX BUILDING,  
Minneapolis  
Minn.

## PROPOSAL ADVERTISING FOR BIDS

### NOTICE TO CONTRACTORS. Burlington, Iowa.

Sealed bids for the steel only, and for the erection of steel and concrete bridges, including all labor and material, and for one car of culvert pipe will be received by Des Moines County, Iowa, until 2 p. m., April 28, 1914.

For plans and specifications, address the undersigned.

F. W. PARROTT,  
County Auditor,  
Burlington, Iowa.

### NOTICE TO ROAD CONTRACTORS. Le Sueur Center, Minn.

Sealed bids will be received at the County Auditor's office of Le Sueur County, at Le Sueur Center, Minn., until Two O'clock, May 7, 1914, for construction of State Highway, being County Job No. Two, being of a total length of 6.10 miles, consisting of the following:  
16,273.80 cubic yards grading.  
14,660.00 lineal feet turnpiking.  
3,182.90 cubic yards graveling.

At a total estimated cost of \$6,278.04.

Plans and specifications may be seen at above named office or at the office of the State Highway Commission at St. Paul.

Each proposal must be accompanied by cash or certified check for not less than 5 per cent of the amount of the bid, payable to the County Treasurer of said County.

All bids must be in accordance with instructions to bidders and upon the blank forms furnished by J. W. Hruska, District Engineer, at Le Sueur Center.

The County Board reserves the right to reject any or all bids.

J. H. KAISERSATT,  
County Auditor.

### COUNTY DITCH. Albert Lea, Minn.

Sealed bids will be received by C. E. Brainerd, County Auditor, at his office at Albert Lea, Minn., until 2 p. m., May 1, 1914, for the construction of County Ditch No. 28.

The work will require the construction

of approximately 7.2 miles of open channel with approximately 238,749 cu. yds. of excavation; the construction of one concrete bulkhead, and the furnishing and laying of the following approximate amounts of tile:—236 ft., 7-in. tile; 1,508 ft., 8-in. tile; 726 ft., 9-in. tile; 1,350 ft., 10-in. tile; 3,603 ft., 12-in. tile; 3,967 ft., 14-in. tile; 4,400 ft., 16-in. tile; 2,814 ft., 18-in. tile; 950 ft., 20-in. tile; 250 ft., 24-in. tile. Estimated cost of construction \$28,508

Bids will be received for open channel and under-drain construction separately, and must be accompanied by a certified check for 10 per cent of the amount of the bid. Bidders must satisfy themselves, by personal examination at the site, of the nature of the proposed work.

### SEALED BIDS.

Bank, Shakopee, Minn.

Will be received by the First National Bank of Shakopee for the erection of a 2-story bank building up to 12:00 o'clock noon, on April 30th, 1914.

Bidders will be required to give certified check for \$500.00 with their bid. Plans and specifications may be seen at the Builders' Exchange, Minneapolis, and at the First National Bank, Shakopee, Minn., on and after Tuesday April 21st. Owner reserves the right to reject any and all bids.

FIRST NATIONAL BANK,  
Shakopee, Minn.

### GRADING, TRACK LAYING AND BRIDGING, UNIVERSITY FARM RAILWAY.

Sealed proposals will be received at the office of G. H. Hayes, comptroller, University of Minnesota, up to 2 P. M., May 4, for grading, track laying and bridging necessary in construction of University Farm Railway.

Bids will be received separately and collectively. Certified check for 3 per cent with bids. Successful bidders to furnish bonds in 75 per cent of amount of contract. Plans and specifications can be had from G. A. Sandberg, Purchasing Officer, 101 Library building, University

of Minnesota. Engineer Roe will confer with bidders wishing to go over lines in afternoon. Business phone, Tri-State, Park 6152. Residence phone Park 7534.

G. H. HAYES, Comptroller,  
University of Minnesota,  
Minneapolis, Minn.

### NOTICE OF LETTING CONTRACT. Road Grading, Forest City, Iowa. Instructions to Bidders.

The Board of Supervisors of Winnebago County, Iowa, will meet at 11 o'clock A. M., on the 6th day of May, 1914, for the purpose of awarding the contract for the grading of approximately 10.5 miles of county road. The work is to be done according to the plans of the engineer now on file in this office and according to the specifications of the Iowa State Highway Commission. Eighty per cent of the amount of complete work will be paid at the end of each month. Each bid should be accompanied by a certified check of 10 per cent of the total amount of the bid, and the successful bidder will be required to execute a bond equivalent to 25 per cent of the amount of contract price. Bids will be accepted by the cubic yard or a specific sum per section.

The Board reserves the right to reject any and all bids. The amount of excavation for all the work is approximately 46,000 cubic yards.

The work is situated as follows:

Five miles on Forest City to Lake Mills County Road.

Three miles on Scarville to Rake County Road.

Two and one-half miles on Thompson to Lake Mills County Road.

The profiles for the work may be seen at the office of the undersigned and at the office of County Engineer at Forest City, Iowa.

Dated at Forest City, Iowa, this 7th day of April A. D., 1914.

(Seal) C. K. NELSON,  
County Auditor.

(Continued on page 17.)



SEND US YOUR PLANS  
Our figures cost nothing, and  
YOU WILL SAVE MONEY

## Don't Make a Mistake!

You Can Buy the Best Sheet Metal Work

such as Cornices, Steel Ceilings, Skylights,  
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ST. PAUL, MINN.



**CHILDREN'S HOSPITAL.**

Phalen Park, Minn.

Sealed proposals will be received by the State Board of Control, in their office at the State Capitol Building, at St. Paul, Minnesota, until 2 P. M., Friday, May 15, 1914, for the additions to Crippled Children's Hospital, Phalen Park, Minn., including the general contract work, heating and ventilating, plumbing and electrical work, in accordance with plans and specifications furnished by C. H. Johnston, Architect, 715 Capital Bank Building, St. Paul, Minn. Bids will be received collectively and separately. Bids to be submitted only on from of bid supplied by the Architect; no other form will be considered. Bids to be accompanied by a certified check for 4 per cent of the amount of the bid, payable to Minnesota State Board of Control, which check will be returned when building contract is executed.

Copies of above plans and specifications may be seen at the office of the State Board of Control, State Capitol Building; Crippled Children's Hospital, Phalen Park, Minn., and at the St. Paul and Minneapolis Builders' Exchanges.

Extra copies of the plans and specifications may be obtained on Application to the architect on payment of cost of duplication. Successful bidders must furnish the Board with a surety company bond in 75 per cent of the amount of contract. The right is reserved to accept or reject any or all bids.

**SALE OF DITCHING JOBS.**

Notice is Hereby Given, That, on the 8th day of May, 1914, at 10 o'clock a. m., at the Auditor's office in the Village of Aitkin, Minnesota, I will sell the jobs and let the contracts for digging and constructing the Ditch No. 20 of Aitkin County, established by the Board of County Commissioners of Aitkin County, State of Minnesota, by their order bearing date April 13th, 1914, viz: In one job and contract, or in sections of 100 feet each, each of said sections to be known and numbered by stakes, as shown by the report of the Engineer in said matter, commencing at the one including the outlet, and from thence, successively, up stream to the one including the source; which ditch contains the approximate amount of work following, viz:

Main ditch 1 to 1 slope, cut average 4 ft. bottom width 4 ft., top width average 15 ft., cubic yards, 195,973. Branches and Laterals same as above in cut, width and top, cubic yards 713,157, total 909,130, and the estimated cost of which ditch is 10c per cubic yard or Ninety Thousand Nine Hundred Thirteen (\$90,913) Dollars, to the lowest responsible bidder or bidders, and that bids are invited for said work as one job, and also for any one or more sections thereof; said work to be completed within the time required, and in the manner specified, in said Engineer's report. And no bid will be entertained which exceeds more than thirty (30) per cent. over and above the estimated cost of the construction of the part of said work covered by such bid; and the successful bidder will be required to give a satisfactory bond in a sum not less than the contract price, to be approved by the Auditor of said County, with two freehold sureties, for the faithful performance and fulfillment of his contract, and to pay all damages that may accrue by reason of his failure to

complete the job within the time required in the contract. The said order and estimates and profile are on file, and may be seen at my office.

All bids must be accompanied by a certified check payable to the Auditor of said County, for not less than ten per cent of the amount of each bid.

The right to reject any and all bids is hereby reserved.

Dated, April 15th, 1914.

J. B. LEMIRE,

County Auditor, Aitkin County, State of Minnesota.

(Seal)

J. H. BAUGH, Engineer,  
Warren, Minnesota.

**STATE HOSPITAL, ST. PETER, MINN.**

Sealed proposals will be received by the State Board of Control, in their office at the State Capitol Building, at St. Paul, Minnesota, until 2 P. M., Thursday, May 7, 1914, for the fireproofing and improvements, South Wing, first and second stories, second hall section, State Hospital, St. Peter, Minn., including the general contract work, heating and ventilating, plumbing and electric work, in accordance with plans and specifications furnished by C. H. Johnston, Architect, 715 Capital Bank Building, St. Paul, Minn. Bids will be received collectively and separately. Bids to be submitted only on form of bid supplied by the Architect; no other form will be considered. Bids to be accompanied by a certified check for 5 per cent of the amount of the bid, payable to State Board of Control, which check will be returned when building contract is executed.

Copies of above plans and specifications may be seen at the office of the State Board of Control, State Capitol Building, St. Paul, Minn.; at the office of the Superintendent, St. Peter State Hospital, St. Peter, Minn., and at the St. Paul and Minneapolis Builders' Exchanges.

Extra copies of the plans and specifications may be obtained on application to the architect on payment of cost of duplication. Successful bidders must furnish the Board with a surety company bond in 75 per cent of the amount of contract. The right is reserved to accept or reject any or all bids.

**BRICK CHURCH BUILDING.**

Plato, Minn.

The undersigned hereby gives notice that sealed proposals for the erection of a brick church building to be erected at Plato, Minn., for the Evangelical Saint Paul's congregation, including all labor and material, will be received by the Building Committee until the hour of 11 a. m., on the 7th day of May, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by Albert Schippel, architect of Mankato, Minn., which may be seen at the office of the architect at the Builders' Exchanges of Minneapolis and St. Paul, Minn., and may also be seen on application to Minder Mercantile Co., General Store at Plato, Minn.

A certified check for 10 per cent, payable to the order of F. M. Graupmann, must accompany each bid as a guaranty. The same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the sum of full amount of his contract for the faithful performance of the contract. The right

is reserved to reject any or all bids.

(Signed) F. M. GRAUPMANN, Chairman.

ALBERT SCHIPPEL, Architect.

Place, Mankato, Minn.

Date, April 21, 1914.

**TELEPHONE, WATCHMEN'S SIGNAL, FIRE ALARM AND CLOCK SYSTEMS FOR STATE ASYLUM FOR INSANE. HASTINGS, MINN.**

Sealed proposals will be received by the State Board of Control at their office, in the State Capitol Building, St. Paul, Minn., until 2 p. m., Tuesday, April 28, 1914, for telephone, watchmen's signal, fire alarm and clock system, State Asylum for Insane, Hastings, Minnesota, in accordance with the plans and specifications of Charles L. Pillsbury Co., Engineers, 805-811 Metropolitan Life Building, Minneapolis.

Bids are to be submitted only on forms supplied by the Engineers. No other form of bid will be considered. Bids are to be accompanied by certified check for five per cent of the amount of bid, payable to the State Board of Control, which check will be returned when contract is executed.

Copies of the above plans and specifications may be seen at the Superintendent's office, State Asylum, Hastings, at the Builders' Exchange, Minneapolis, at the Builders' Exchange, St. Paul, at the office of the Board of Control, and at the office of the Engineers. Extra copies of plans and specifications may be obtained on application to the Engineers on payment of cost of duplication. Successful bidder must furnish the Board with a surety bond in 75 per cent of amount of contract. The right is reserved to accept or reject any or all bids.

**HIGH SCHOOL BUILDING.**

Northwood, Iowa.

Sealed Proposals will be received by the Board of Education of Northwood up to 3:00 P. M., Mar. 8, 1914, for the erection of a High School Building in Northwood, Iowa, separate bids being desired as follows:

General Construction,

Heating,

Plumbing,

Electrical Work,

Also for a new Fan Ventilating System in the present four-room Grade Building, including a certain amount of remodeling.

Plans and specifications for the above may be procured from the Architects, Alban & Lockhart, 407 Chamber of Commerce Building, St. Paul, Minn., by depositing with them, a certified check for \$10.00, to insure prompt return of plans and that a bid will be submitted upon them. Checks will be returned to parties complying with these requirements.

A Certified Check or Bidder's Bond will be required with bids as follows:

General Construction—3 per cent of bid.

Heating—\$300.00.

Plumbing—\$200.00.

Electric—5 per cent of bid.

Ventilating of Grade Building—\$100.00.

A Surety Co. Bond for full amount of contract will be required of each Contractor on building. The Owners reserve the right to accept any bid or reject any or all bids.

M. H. KEPLER,

President, Board of Education.

(Continued on page 18.)



**Employers' Liability Insurance  
Surety and Fidelity Bonds.**

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IN THE NORTHWEST

More than 50,000 personal  
injury cases handled for  
contractors and others  
since 1892.

Security Bank Bldg.,

MINNEAPOLIS

### ADDITION TO SCHOOL.

Boyd, Minn.

The undersigned hereby gives notice that sealed proposals for the erection of an addition to the school house in Dist. No. 86 in Boyd, Minn., including all labor and material, will be received by I. N. Brown, Clerk of said district, until the hour of 3 P. M., on the 11th day of May, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by Martin Granum of Monevideo, Minn., which may be seen at the office of I. N. Brown, Clerk, on and after April 15, 1914, and may also be seen on application to Martin Granum, Architect, at Montevideo, Minn.

The work will be let in two or more contracts. One contract will include

basement work and building, the other heating and ventilating plant and necessary plumbing.

A certified check for \$300.00, payable to the order of I. N. Brown, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom a contract is awarded will be required to give a satisfactory bond in the sum of \$4,000.00 for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed) I. N. BROWN,

Clerk, Dist. No. 86,

Lac qui Parle Co., Minn.

Boyd, Minn.,

April 14, 1914.

## PROPOSALS

### RE-SLATING, METAL WORK, ETC.

State Asylum, Hastings, Minn.

Sealed proposals will be received by The State Board of Control, in their office, at the State Capitol Building, St. Paul, Minn., until 2 P. M., April 27th, for the re-slating and sheet metal work in connection with the present roof of "B" wing to the Administration Building at the Hastings State Asylum, Hastings, Minn., in accordance with specifications furnished by C. H. Johnston, Architect, 715 Capital Bank Building, St. Paul, Minn. Bids to be submitted only on form of bid supplied by the Architect; no other form will be considered. Bids to be accompanied by a certified check for 5 per cent of the amount of the bid, payable to the Minnesota State Board of Control, which check will be returned when building contract is executed.

Copies of specifications may be seen at the office of the State Board of Control, State Capitol Building; office of the Superintendent of the Hastings Asylum, Hastings, Minn., and at the St. Paul and Minneapolis Builders' Exchanges.

Extra copies of specifications may be obtained on Application to the Architect on payment of cost of duplication. Successful bidders must furnish the Board with a surety company bond in 75 per cent of the amount of contract. The right is reserved to accept or reject any or all bids.

C. H. JOHNSTON, Architect,  
St. Paul, Minn.

(Continued on page 19.)

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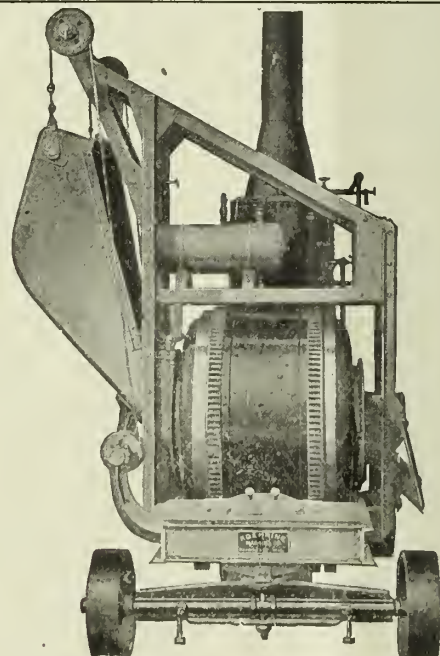
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349-351 Security Bank Bldg.

Wisconsin

Minneapolis



**SCHOOL BUILDINGS.**

Sioux Falls, S. D.

Notice is hereby given that sealed bids will be taken by the undersigned for the material and labor necessary for the erection of a fireproof school building to be known as the Bishop Hare Memorial for All Saints School at Sioux Falls, So. Dak. Proposals will be received by mail not later than ten o'clock, A. M., of May 21, 1914, and should be addressed to Bishop Biller at Sioux Falls, So. Dak.

All bids must be in strict accordance to the plans and specifications as prepared by Robert Perkins, Architect. Plans are on file at the Builders' Exchange at Minneapolis, and copies of same may be procured by addressing Bishop Biller.

Bids will include, Heating, Ventilating, Plumbing and Electric wiring, the contract to be of a general form.

A certified check for 3 per cent payable to Bishop Biller shall accompany each bid as a guarantee, the same to be immediately returned to the unsuccessful bidders upon letting of contract.

The right is reserved to reject any or all bids.

Signed.

BISHOP BILLER,  
Per R. A. P.

**GAS MAIN.**

Hopkins, Minn.

Bids will be received by the Village Council of the Village of West Minneapolis up to May 5, 1914, at 7 o'clock P. M., of that day, for the laying of an eight-inch cast iron gas main from Excelsior Avenue to the gas plant in said West Minneapolis.

E. A. CLOSE,  
Recorder.

**NOTICE TO CONTRACTORS.**

Proposals for Church Building for First Presbyterian Church.

Crookston, Minn., April 8, 1914.

Sealed proposals addressed to Dr. R. C. Bailey will be received until 3 o'clock P. M., on May 5, 1914, at Crookston, Minnesota, for four (4) separate bids for material and labor necessary for the construction and finishing of the church building for the First Presbyterian Church of Crookston, Minn., as follows:

- A. General Contract for building.
- B. Contract for Heating and Ventilating.
- C. Contract for Plumbing.
- D. Electric Wiring.

Plans and specifications are on file and may be examined at the following places: B. D. Keck, Architect; the Manse, Rev. R. C. Bailey, D. D. Chairman; the office of C. C. Strander, Secretary of Building Committee, Crookston, Minnesota, and the Builders' Exchange, No. 17 South 6th St., Minneapolis, Minn.

Proposals must be made according to the copies of forms attached to the specifications, filling out the alternate proposals, indentifying the outside of envelopes as "bids for Presbyterian Church" and addressed to Dr. R. C. Bailey.

A certified check for 5 per cent of the total amount of the proposal, made payable to C. C. Strander, Secretary of Building Committee, must accompany same as a guarantee that the bidder, if successful, will execute contract and furnish approved bond as required. Failing in this, said check to be forfeited. The right is reserved to reject any and all bids.

The First Presbyterian Church of  
Crookston, Minn.

By R. C. BAILEY, Chairman.  
BERT D. KECK, Architect.

**NOTICE TO BRIDGE CONTRACTORS.**

Walker, Minnesota.

Sealed bids will be received at the office of the County Auditor of the County of Cass, at the Court House in the City of Walker, Minnesota, until 2 o'clock P. M., Saturday, May the 9th, 1914, for building three steel bridges on State Rural Highway No. 45, in township 143, North Ranges 25 and 26, West Cass County, Minnesota, said bridges are designated on the Engineer's plans as bridges numbered 1169, 1170 and 1171.

**Bridge 1169.**

The superstructure will be twenty (20) feet beam-span, eighteen (18) feet roadway, concrete floor on concrete foundation. Distance from top of floor to bottom of foundation about nine (9) feet.

**Bridge 1170.**

The superstructure will be forty (40) feet truss-span, eighteen (18) feet roadway, concrete floor on concrete foundation. Distance from top of floor to bottom of foundation about thirteen (13) feet.

**Bridge 1171.**

The superstructure will be forty (40) feet truss-span, eighteen (18) feet roadway, concrete floor on concrete foundation. Distance from top of floor to bottom of foundation about thirteen (13) feet.

(A) Plans and specifications may be seen at the above named office, at the office of the State Highway Commission and at the office of George A. Ralph, Engineer in charge.

(B) Plans may be submitted by prospective bidders, which shall comply with the specifications of State Highway Commission dated 1912.

Each proposal must be accompanied by a certified check for not less than ten per cent (10%) of the amount of the bid, payable to the County Auditor of said Cass County, Minnesota. All bids must be made on blank forms which will be furnished by the Engineer.

The right is reserved to reject any or all bids.

I. P. BYHRE,  
County Auditor,  
Cass County, Minn.

GEORGE A. RALPH,  
Engineer in Charge,  
380 Shubert Bldg.,  
St. Paul, Minn.

**NOTICE TO ROAD AND DITCH CONTRACTORS.**

International Falls, Minn.

Notice is hereby given that sealed bids will be received by the County Auditor of Koochiching County at his office in International Falls, Minn., on the 8th day of May, 1914, on or before 2:00 p. m., for the construction of State Rural Highway No. 9, in whole or in part as follows:

- Div. A.—Road construction, estimated cost, \$12,265.30.
  - Div. B.—Ditch construction, estimated cost, \$45,476.85.
  - Div. C.—Road construction, estimated cost, \$4,450.23.
  - Div. D.—Road construction, estimated cost, \$16,203.25.
  - Div. E.—Road construction, estimated cost, \$50,775.02.
- Total length 81 miles, total estimated cost \$129,170.65.

All work must be constructed according to the plans and specifications on file in the office of the County Auditor and State Highway Commission.

All bids must be accompanied by a

certified check for at least 5 per cent of the bid, and drawn on a State or National Bank within the State, and made payable to the Auditor of Koochiching County, as a guarantee of good faith.

Bidders will be required to make their bids on formal proposal blanks furnished by the County Auditor.

The successful bidders will be required to enter into contract with the County of Koochiching, and must be prepared to give good and sufficient bond for the faithful performance of his contract.

The right is reserved to reject any and all bids.

Dated International Falls, April 12, 1914.

L. H. SLOCUM,  
County Auditor, Koochiching County,  
Minn.

L. A. OGAARD,  
Engineer.

**NOTICE TO CONTRACTORS.**

Reinforced Concrete Reservoir at New Ulm, Minnesota.

Sealed bids will be received at the City Clerk's office, at New Ulm, Minn., up to 5 o'clock P. M., May 5, 1914, for the construction of a reinforced concrete reservoir, with all piping and appurtenances thereto, all according to plans and specifications on file in the city clerk's office. All bids are to be sealed and marked "Proposal for Reservoir," and accompanied by a certified check in the sum of \$300, payable to the City Clerk, to be forfeited to said city in case the successful bidder fails to enter into contract and furnish satisfactory bond within ten days after the acceptance of his bid. The City Council reserves the right to reject any or all bids.

Dated New Ulm, Minn., April 14, 1914.  
(Seal) WM. BACKER, City Clerk.

F. D. MINNUM, City Engineer.  
v-h3roadway

**NOTICE TO ROAD CONTRACTORS.**

International Falls, Minn.

Notice is hereby given that sealed bids will be received by the County Auditor of Koochiching County at his office in International Falls, Minn., on the 8th day of May, 1914, on or before 2:00 P. M., for the construction of State Rural Highway No. 5, in whole or in part. Total length 22.23 miles, total estimated cost \$25,661.17.

All work must be constructed according to the plans and specifications on file in the office of the County Auditor and State Highway Commission. All bids must be accompanied by a certified check for at least 5 per cent of the bid, and made payable to the Auditor of Koochiching County, as a guarantee of good faith.

Bidders will be required to make their bids on formal proposal blanks furnished by the County Auditor.

The successful bidder will be required to enter into contract with the County of Koochiching, and must be prepared to give good and sufficient bond for the faithful performance of his contract.

The right is reserved to reject any and all bids.

Dated International Falls, Minn., April 13, 1914.

L. H. SLOCUM,  
County Auditor, Koochiching County,  
Minn.

L. A. OGAARD,  
Engineer.

(Continued on page 20.)



LINOFELT should be your first thought this spring in building that new home—or remodeling the old one. We know you want COMFORT above all things. Get it. Use Linofelt. Actual tests show it to be 38 times more efficient than building paper. The difference in initial cost will be made up the second winter in fuel saved; and more, you are sure of what you are after—COMFORT. We make every form of insulation preventing cold or heat from going through walls, floors or roofs. Write for illustrated booklets.

**UNION FIBRE COMPANY, -:- WINONA, MINNESOTA**

## PROPOSAL ADVERTISING FOR BIDS

### NOTICE OF BIDS WANTED.

School, Carbury, N. D.

The undersigned hereby gives notice that sealed proposals for the erection of a four-room frame school building, including all labor and material, will be received by O. O. Weber, clerk of Carbury Special School District, until the hour of 7:00 P. M., on the 15th day of May, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by Ed. White of Bottineau, N. D., which may be seen at the office of O. O. Weber, Clerk, Carbury, N. D., on and after April 18, 1914, and may also be seen on application to Ed. White, Bottineau, N. D. The stone and concrete basemen. may be bid on separately from the frame superstructure.

A certified check for 5 per cent of bid payable to the order of J. S. Gorder, pres. C. S. S. P., must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the sum of double the amount of the contract for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed) J. S. GORDER,  
President.  
O. O. WEBER, Clerk.

### PROPOSAL FOR SCHOOL BUILDING. Spiritwood, N. D.

Sealed proposals will be received for a four-room, brick school building by the Board of Directors of Spiritwood School District No. 26, Stutsman County, North

Dakota, up to the hour of one o'clock P. M., May 1, 1914, at the office of E. J. Clamp, Clerk at Spiritwood, N. D.

All bids must be in strict accordance with plans and specifications prepared by Haxby & Gillespie, Architects, Fargo, N. D., and must be accompanied by a certified check for 5 per cent of the amount of the bid, made payable to Albert W. Dunwell, President, as an evidence that the bidder will enter into contract if awarded same.

Plans will be on file at the following places after April 10, 1914: At the office of the County Superintendent, Jamestown, N. D.; Builders' Exchanges, Fargo and Bismarck, N. D.

Bids will be opened at the same time and place and under like conditions for the Steam Heating and Ventilation on the above building.

The Board reserves the right to reject any or all bids.

By order of the Board.  
ALBERT W. DUNWELL, President.  
E. J. CLAMP, Clerk.  
Haxby & Gillespie,  
Architects, Fargo, N. D.

### COTTAGES EIGHT AND NINE.

State Asylum, Anoka.

Sealed proposals will be received by State Board of Control in their office in the State Capitol Building at St. Paul, Minn., until 2 P. M., April 27, 1914, for the erection and completion of cottages 8 and 9 at Anoka State Asylum, including the general contract work, heating and ventilating, plumbing and electrical work, in accordance with plans and specifications furnished by C. H. Johnston, Architect, 715 Capital Bank, St. Paul, Minn.

Bids will be received collectively and separately. Bids to be submitted only on form of bid supplied by the Architect; no other form will be considered. Bids to be accompanied by a certified check for 4 per cent of the amount of the bid, payable to State Board of Control, which check will be returned when building contract is executed.

Copies of above plans and specifications may be seen at Builders' Exchanges St. Paul and Minneapolis, at the office of the State Board of Control as above and at the office of John Coleman, superintendent of above institution.

Extra copies of the plans and specifications may be obtained on application to the Architect on payment of cost of duplication. Successful bidders must furnish the Board with a surety bond in 75 per cent of the amount of contract. The right is reserved to accept or reject any or all bids.

### BIDS FOR CULVERTS.

Detroit, Minn.

Bids will be received by the county board of Becker County, Minnesota, up to May 6, 1914, at 10 o'clock A. M., for one carload or more of corrugated galvanized metal culverts. Said culverts to conform with the specifications of the Minnesota State Highway Commission.

The board reserves the right to reject any or all bids.

Dated at Detroit, Minnesota,  
April 15, 1914.

M. J. MORROWS,  
County Auditor.

(Continued on page 21.)

## FREE HELP WANTED ADS.

An experienced foreman who understands thoroughly paving and grading work, sidewalks and curb construction. Address Lawrence-McCann Co., Eveleth, Minn.

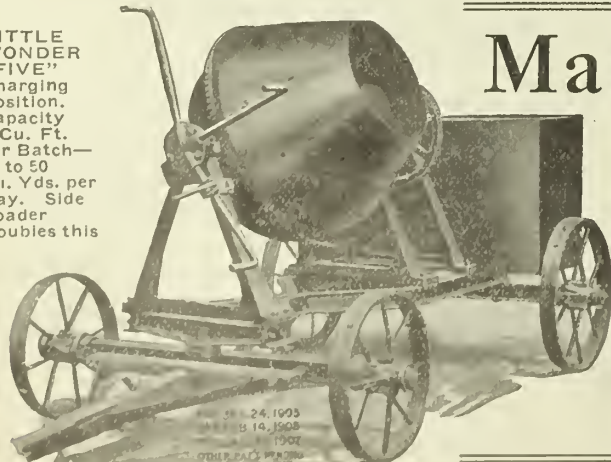
### WANTED TO BUY MOTORCYCLE.

Send price on second-hand motorcycle. Must be cheap for cash.  
Box 20, Improvement Bulletin.

Wanted—Good concrete worker who can set floor tile, either ceramic or encaustic. Address M-I-S-D Supply Co., Sheldon, Iowa, giving experience and wages wanted.

Wanted—Draftsman at once, Hoffman & Mosse, Rochester, Minn.

LITTLE  
WONDER  
"FIVE"  
Charging  
Position.  
Capacity  
5 Cu. Ft.  
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35 to 50  
Cu. Yds. per  
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Loader  
Doubles this



## Make These Profits

First—50 cts. per cu. yd. over hand mixing, which pays for the mixer in 12 days. Second—TEN DAYS' FREE TRIAL, which cannot be expressed in dollars, but guarantees satisfaction. Third—Quality that insures durability and saves breakdowns and loss of time—all equivalent to profits.

### WONDER MIXERS

are known nationally and indorsed by thousands of contractors as the only logical choice. You ought to know why before you decide on a mixer—and, remember, you must be satisfied before you buy, or we pay the freight.

**WATERLOO CEMENT MACH'Y CORP'N, Mfrs.**

220 Vinton St., Waterloo, Iowa

**HALE CONCRETE MACHINERY COMPANY, AGENTS,**

1042 McKnight Bldg., Minneapolis, Minn.



**CHURCH ADDITION.**  
Fairfax, Minn.

Proposals for rebuilding the First M. E. Church and adding an addition at Fairfax, Minn., will be received at the First National Bank at Fairfax, Minn., until 2:30 o'clock P. M., Monday, May 4, 1914.

Plans and specifications for same are on file at the Builders' Exchange rooms at Minneapolis and St. Paul; at the First National Bank at Fairfax and at the office of C. A. Boehme, Architect, 502 Kaskota Block, Minneapolis, Minn.

A certified check for \$500, made payable to the Treasurer of the First M. E. Church, Fairfax, Minn., must accompany each proposal. Right is reserved to reject any or all bids.

Building Committee,  
E. F. SELL, Chairman.

**NOTICE TO CONTRACTORS.**

Sealed bids will be received up to one o'clock P. M., May 25, 1914, at Maddock, Benson County, North Dakota, for the erection and completion of a ten-room, brick school house for Viking School District No. 9 at Maddock, Benson County, North Dakota.

All bids must be addressed to I. J. Hauge, Clerk of said School District, at Maddock, Benson County, North Dakota, and must be marked "Bids for School House."

Each bid must be accompanied by a check of \$500.00, in favor of Albert Hesla, President of the School Board, as good faith to enter into contract and furnish satisfactory bond for double the amount of the contract price.

After the said bond is approved and accepted by the School Board, the check will be returned to the contractor.

Heating and ventilating bid and plumbing bid must be tendered separately from the general bid. The bond must be in the same proportion as the General Bid and the contract. Certified check for \$100.00 must accompany each bid.

The Board reserves the right to reject any and all bids.

Plans will be on file from April 23, at the Clerk's Office at Maddock, North Dakota; at the Builders' Exchange at Grand Forks, North Dakota; at the Builders' Exchange at Fargo, North Dakota, and at the Builders' Exchange at Minneapolis, Minn.

J. W. ROSS & SON,  
Architects.

I. J. HAUGE,  
Clerk.

**BIDS ON CHURCH.**  
Watertown, S. D.

The Building Committee of the First Methodist Episcopal Church, Watertown, South Dakota, ask for sealed bids for new church building and bids delivered to J. W. Dougherty, Chairman, Watertown, S. D., on or before 12 o'clock noon, Monday, May 18, 1914.

Plans may be obtained of the Architect, Harry W. Jones, Lumber Exchange, Minneapolis, or of J. W. Dougherty, Chairman, Watertown. A deposit of \$10 will be required, which will be refunded upon return of plans.

Copies of plans will be on file at Builders' Exchange, in Chicago and Minneapolis, for reference.

**BIDS WANTED.**

Sealed bids will be received by the City Commissioners at the City Hall, Madison, South Dakota, up to 8 o'clock P. M., May 11, for the construction of a well thirty feet diameter, twenty-three

feet deep, together with appurtenances.

Plans and specifications may be obtained of Chas. A. Trimmer, City Engineer, by depositing \$5.00, same to be refunded upon return of plans and specifications.

Check for \$300.00 to accompany bid. Commissioners reserve the right to reject any or all bids.

GEO. H. WASKEY, Mayor.  
WM. RAE, City Auditor.

**WATERWORKS.**  
Stanwood, Iowa.

Sealed bids for the construction of waterworks, as per plans and specifications on file with the Town Clerk, will be received by the Town Council of Stanwood, Iowa, at its Council Room, until 8 o'clock P. M., May 5, 1914. The work consists of the following items:

- 100-foot steel tower and tank, 40,000 gallons capacity
- 6,470 lineal feet 4-inch mains
- 700 lineal feet 6-inch mains
- 775 lineal feet 8-inch mains
- 15 hydrants
- 10 4-inch gate valves and boxes
- 2 6-inch gate valves and boxes
- 1 8-inch gate valve and box.

Separate bids will be received for tower and tank, and for pipe distributing system, each bid to be accompanied by a certified check for \$500.00 on the Union Trust Savings Bank of Stanwood, Iowa, made payable to the Town Treasurer of Stanwood, Iowa. The Town Council reserves the right to reject any or all bids.

WM. M. THOMPSON,  
Clerk.

**BRIDGE.**

Hastings, Minn.

Sealed bids will be received at my office in the City of Hastings, until 10 o'clock, A. M., on Tuesday the 12th day of May, 1914, for furnishing all material and erecting a steel pin connected truss span in section 21, Ravenna Township, Dakota County, Minnesota, known as State Bridge No. 740, located on State Road No. 10.

The Superstructure will be 150-foot span, 16-foot roadway and the work does not include building of abutments or any part of the substructure and does not include the furnishing of reinforcing bars for, nor building the concrete floor.

Plans and specifications may be seen at my office or at the State Highway Commission at St. Paul, or will be mailed to builders upon request.

Each bid must be accompanied by cash or a certified check for 5 per cent of the bid, payable to me, and all bids must be upon the regular State Highway Commission forms.

The committee reserves the right to accept or reject any proposal.

For the Committee,  
P. A. HOFFMAN,  
County Auditor,  
Hastings, Minn.

**LADIES' GYMNASIUM.**  
University of Minnesota, Minneapolis, Minn.

Sealed proposals will be received by the State Board of Control until 2 P. M., Monday May 11, 1914, at their office in the State Capitol Building, St. Paul, Minn., for the erection and completion of the Ladies' Gymnasium Building, at University of Minnesota, Minneapolis, Minn., including the general contract work, heating and ventilating, plumbing and electrical work, in accordance with plans and specifications furnished by C. H. Johnston,

Architect, 715 Capital Bank Building, St. Paul, Minn. Bids will be received collectively and separately. Bids to be submitted only on form of bid supplied by the Architect; no other form will be considered. Bids to be accompanied by a certified check for 4 per cent of the amount of the bid, payable to State Board of Control, which check will be returned when building contract is executed.

Copies of above plans and specifications may be seen at the office of the State Board of Control, State Capitol Building, St. Paul; at the office of Geo. H. Hayes, Comptroller, University of Minnesota, Minneapolis, Minn., and at the St. Paul and Minneapolis Builders' Exchanges.

Extra copies of the plans and specifications may be obtained on Application to the architect on payment of cost of duplication. Successful bidders must furnish the board with a surety company bond in 75 per cent of the amount of contract. The right is reserved to accept or reject any or all bids.

**NOTICE TO CONTRACTORS.**  
Creamery, Silver Lake, Minn.

Notice is hereby given that the Silver Lake Creamery Company will receive bids for the construction of a creamery building at Silver Lake, Minnesota.

Bids will be received up to Wednesday, the 6th day of May, 1914, at 1 o'clock p. m., at the city hall in Silver Lake, Minnesota.

All bids must be accompanied by a certified check for 5 per cent of amount of bid. The successful bidder must furnish a surety bond for the full amount of bid.

Plans and specifications may be seen at the Creamery in Silver Lake, Minnesota.

The Silver Lake Creamery Company hereby reserves the right to reject any or all bids submitted.

J. J. DRAHOS,  
Chairman Building Committee.  
JOHN KASPER,  
Secretary.

Dated at Silver Lake, Minn.,  
April 22, 1914.

**SEWER TANK, ETC.**  
Warren, Minn.

Warren, Minn., April 22, 1914.

Sealed proposals will be received by the City Council of the City of Warren, Minnesota, up to 8 P. M., Friday, May 8, 1914, at the City Hall building in the City of Warren, Minn., for the extension of the present sewer from the present terminus of the sewer to and across the Snake River on Forest and River Avenues to the Snake River, and for the building of an Imhoff Tank, Filter Beds and all other necessary appurtenances thereto.

Plans and specifications can be found at the office of the City Recorder.

Bidders will be required to view the grounds and surroundings before submitting bid.

All bids must be accompanied by a certified check on a State or National Bank of this State for not less than ten per cent of the amount of the bid.

The right to reject any or all bids is reserved.

By order of the Common Council.  
G. O. CROSS,  
City Recorder.

(Continued on page 25.)



# AMERICAN BRIDGE COMPANY OF NEW YORK

**B**UILDERS of steel structures of all kinds, including mining and manufacturing buildings, power plants, towers and tanks, bridges and viaducts, turntables for locomotives and automobiles. roofs, trusses, girders and steel frames for business buildings.

Stock carried at Minneapolis includes a large supply of structural steel, consisting of beams, channels, angles and plates. Orders requiring quick delivery can be filled promptly.

Estimates will be gladly furnished and all inquiries will receive careful attention.

Office and Works 7th Ave. and 2nd St. S. E., Minneapolis, Minn. Duluth Office  
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MANUFACTURERS OF  
Expanded Metal for Concrete Reinforcement  
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Metal Studding, Furring Strips, Etc.  
for Use with Expanded Metal Lath.

"Mahoning" Brand Expanded Metal  
In Gauges No. 7 to 12 Inclusive.

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In Gauges Nos. 7 to 20 Inclusive.

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## Landers-Morrison-Christenson Co.

Agents for Minnesota and North and South Dakota  
Lumber Exchange Building, Minneapolis, Minn.

## The Fort Garry Hotel WINNIPEG CANADA



3,000 Tons of Steel Furnished and Erected by

Minneapolis Steel & Machinery Co. Minneapolis  
Minnesota

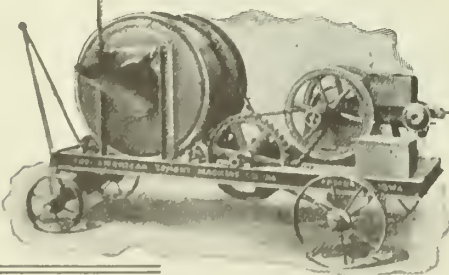
## Davenport Machine & Foundry Co.

1618-44 West Fourth St. Davenport, Iowa

## STRUCTURAL

Steel and Cast Steel and Cast Columns, Steel Girders,  
Cast Iron Roof Trusses, Stairways and Fire Escapes. Beam Channels and Angles  
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## IT'S A "BOSS" MIXER!



Handy to get around with. Mixes 60 yds. of concrete a day.

Five foot capacity BOSS mixer on steel truck with 3 h. p. gasoline engine

\$198.00

BOSS mixer, fitted with side loader and hoisting drum, \$288.00  
I also sell Austin cube mixers, Coltrin mixers, gasoline engines & cement block machines  
**NELS ERICKSON** 405 BOSTON BLOCK  
Minneapolis, - Minn.

Sand - Lime  
Common Brick  
Face Brick

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BELT LINE BRICK COMPANY 512 ANDRUS BUILDING  
MINNEAPOLIS, - MINN.

Ricketson's  
MINERAL COLORS

Made Famous

the Slogan:



For Mortar, Brick, Cement, Stone, Etc.,  
Red Brown, Buff,  
Purple and Black.

Ricketson's Mineral Paint Works, Milwaukee, Wis.



## BUSINESS BUILDINGS

*Notes arranged alphabetically by States.*

**Alta., Calgary**—Mrs. H. A. Young will build large business building, corner Center st. and 7th av.; cost over a million dollars.

**Alta., Edmonton**—A 3-story brick building will be built by McDougal & Secord; cost \$50,000.

**Iowa, Burlington**—(Morning Sun, item no P. O.)—Fire destroyed W. A. Cox, market, Robinson drug store, J. M. Morrison, grocery, Thomas Houston, grocery, H. M. Adams, barber shop, large feed barn of Jamison & McIlhenert; Young Men's club, reading room, billiard parlors; United Presbyterian church damaged; loss \$70,000.

**Iowa, Cedar Rapids**—The Franchise Co. will remodel the Fair building, modern throughout.

**Iowa, Davenport**—Ben Mangels & Son have let contract for a modern 1-story brick office building; Dr. J. S. Weber, owner.

**Iowa, Davenport**—The Dubuque Paper Co.'s building is being erected, 7-story and basement, modern, mill construction, freight elevator, first story faced with htex rough brick, upper stories Chicago brick; ohn Spencer, architect, Davenport; Anton Zwack erecting building.

**Iowa, West Union**—A new brick block will be built by Thos. Theobald, B. F. Tambyn & Son, general contract; David Dildine, brick and stone work.

**Minn., Ada**—Plans on file at Builders' & Traders' Exchange, Grand Forks, N. D., for addition to bank building, May 15; H. E. Winslow, architect, Grand Forks, N. D.

**Minn., Albert Lea**—Veggar Gulbrandson's building, modern, started.

**Minn., Beltrami**—Bank of Beltrami will soon let contract for building; cost \$7,000, modern, 1-story, pressed brick; C. C. Heath, cashier.

**Minn., Bemidji**—A 40-foot addition will be built to Bemidji Auto Co. building; concrete and steel, modern.

**Minn., Crookston**—Plans are prepared for building to be erected by a stock company of Scandinavians, city; cost \$25,000.

**Minn., Detroit**—Mr. Wage is building a postoffice.

**Minn., Detroit**—The Merchants National Bank will remodel bank, new mahogany beamed ceiling, marble floors, wainscoting around lobby; cost about \$8,000.

**Minn., Eveleth**—Chanedling Bros. will build a 2-story business block; cost \$15,000.

**\*N. D., Grand Forks**—Plans on file for the Scandinavian American Bank building, at Grand Forks Builders' & Traders' Exchange, for plumbing, heating and wiring; Beuchner & Orth, architects.

**Minn., Hanska**—The State Bank will erect a modern bank building and an up-to-date hardware store, solid concrete floors, electric lights, pressure tank water system, steam heat.

**Minn., Le Sueur Center**—Fire destroyed three 2-story business buildings, Pomijie garage, Grand picture theater, Hamm Brewing Co.'s saloon; loss \$15,000.

**Minn., Long Prairie**—C. F. Miller will erect a modern building.

**Minn., New Ulm**—August Loeffelmacher will erect a cement block store soon.

**Minn., Ortonville**—Brick work begun on the State Bank.

**Minn., Owatonna**—First National Bank building, \$30,000, 44x99; Kenyon & Maine, architects, Minneapolis, Hammel Bros. & Anderson contractors, Owatonna.

**Minn., Owatonna**—Mitchell Nursery Co. warehouse and salesroom, 44x100; plans in progress; no contract let.

**\*Minn., Twin Valley**—The Security State Bank will build a new modern bank; A. D. Stephens, president, brick, 2-story, work to commence soon as contract is let.

**Minn., Walker**—Bert Chase will build a store building, modern.

**Minn., Winthrop**—Plans for State Bank of Winthrop, are furnished by A. Moorman & Co., St. Paul; Bedford stone, brick, hollow tile; marble, oak, contracts let.

**Minn., Wycoff**—Mr. Rowley will build 2-story fireproof building, galvanized iron, plate glass front, modern.

**\*Mont., Darby**—Ole Bakke, architect, Missoula, Mont., is drawing plans for a 2-story bank building, 30x70, for Darby State Bank; cost about \$8,000.

**Mont., Great Falls**—Excavation has started on foundation for A. W. Kingsbury block, 3-story; cost \$50,000.

**Mont., Joliet**—H. M. Allen & Co. are erecting a business building.

**Neb., Auburn**—New warehouse is being built for Wm. Hall's hardware.

**Neb., Fremont**—Al. Koven plans large business block; cost about \$30,000.

**Neb., Falls City**—Edwin Falloon, attorney, will build office building; plans by architect M. N. Bair.

**Neb., Grand Island**—Fire damaged the following: Brunswick pool hall and cigar store, completely destroyed, \$7,500; Woolworth stock, \$20,000; Grand Island bookstore, damaged \$3,000; Nagelstock women's clothing store, damaged \$6,000.

**Neb., Linwood**—Henry Peltz is having a business block built.

**Neb., Loup City**—John Oltmau will build modern store building; John Ohlsen, contractor.

**Neb., Minden**—Joseph Pinkham will build modern pressed brick building; hot water heating plant, steel vaults, steel ceiling; O. W. Pitches, will also build a similar building.

**Neb., Ord**—W. B. Keown has commenced erection of double store building.

**Neb., Ord**—Stara & Masin has let contract for saloon building, brick, plate glass.

**Neb., Sargent**—Dr. C. H. Fenstermacher will build modern office building, cement block, 24x32, full basement.

**Neb., Tobias**—J. A. Wild of Wilber will build an office building.

**N. D., Cogswell**—Geo. G. Jorgenson will build an office building.

**N. D., Davenport**—Farmers' & Merchants' Bank will build.

**N. D., Grand Forks**—J. W. Ross & Son, architects, are preparing plans for addition to First National Bank, in East Grand Forks, Minn.

**N. D., Heaton**—Fire destroyed John Hoy's store.

**N. D., Wahpeton**—Work to begin soon on Steru's Clothing Co. building.

**N. D., Westhope**—C. N. Morwood will build addition to general store used as warehouse.

**Ont., Port Arthur**—Wells & Emmerson Hardware Co., propose to erect a block.

**Sask., Regina**—Excavation commenced on new Swartzfeld block; cost \$50,000.

**S. D., Barker**—K. B. Stoddard is building an office building.

**S. D., Brookings**—Geo. N. Breed, will build a new modern brick building, 2-story.

**S. D., Brookings**—Philo Hall will build a double brick building 50 feet wide 150 feet deep, 2-story, basement, reinforced concrete, throughout, electric lights, steam heat, prism glass, patent ventilating, to be occupied by Ellis & Hall department store.

**S. D., Flandreau**—K. G. Bidne is having an addition built to his shoe store.

**S. D., Hurley**—H. C. Nelson will commence building a new cement block building.

**S. D., Huron**—City National Bank building started, fireproof, modern, 1-story concrete building; contract let to Contractor Erickson.

### BIDS WANTED.

**N. D., Grafton**—The Scandinavian American Bank received plans for a modern building; bids to be opened April 25.

**Sask., Saskatoon**—Bids received until May 2, for a cold storage warehouse, by Thompson & Crockart, architects, Masonic temple.

### CONTRACTS AWARDED.

**Mont., Glasgow**—Contract awarded to Leigland, Kleppe & Co., Great Falls, Mont., for First National Bank, Glasgow, Buechner & Orth, St. Paul, architects; bids on proposition No. 1 entire two street fronts finished in terra cotta using Sackett plaster board and finishing bank in mahogany. Lange Engineering & Construction Co., Great Falls, Mont., \$54,974; Leigland, Kleppe & Co., Great Falls, Mont., \$55,646; E. A. Thomas, St. Paul, Minn., \$60,716; E. Olson, Poplar, Mont., \$74,000; proposition No. 2 facing on the two street fronts with Twin City brick using terra cotta for all trim and concrete, Lange Engineering & Construction Co., Great Falls, Mont., \$53,731; Leigland, Kleppe & Co., Great Falls, Mont., \$54,496; E. A. Thomas, St. Paul, Minn., \$60,716; contract awarded to Leigland, Kleppe & Co., on proposition No. 2.

**Neb., Arnold**—Frank Knox let contract to G. W. Morrow for brick office building.

**N. D., Litchfield**—O. O. Dahl has let contract for a 30x90 1-story brick business building to the Johnson Construction Co., Fargo, N. D.; cost \$4,500; the First National Bank let contract for a 1-story brick building; 70x25, \$4,500.

**S. D., Armour**—Jas. Hanskutt let contract for brick work on postoffice to Mr. Lynn, of Winner.

**S. D., Beresford**—Contract for construction of Martin Ebsen building, let to William Thompson, brick, 2-story, 22x80.

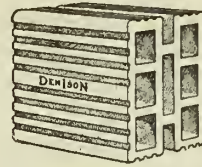
**Wis., Delavan**—The Acme Building Co. of Madison has let contract to H. Graff of Baraboo, for modern office building.



# AMERICAN Brick & Tile Co.

AMERICAN FIREPROOFING  
BLOCKMASON CITY  
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DRAIN TILEInfinitex  
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Manufacturers of Common and Hollow Brick, Hollow Building Blocks,  
Fireproofing and Partition Tile, Vitrified Drain Tile from 4 to 24 inches.  
WE ALSO MANUFACTURE THE INFINITEX SILO BLOCK



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### THE STRONGEST TILE IN THE WORLD

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Superior for stucco exteriors or bonds perfectly with brick.

Non-continuous mortar joints.

Vertical webs directly over each other.

Saving in cost erected of 25% over brick construction.

### MASON CITY BRICK & TILE CO.

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Makers of All Kinds of Fireproofing, Silo Tile, Elevator Tile  
and Drain Tile.

## Tile and Marble

For Floors, Walls, Ceilings, Etc.  
Slate Blackboards, Steps, Plat-  
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N. W. Nicollet 2789

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Sidewalk, Building, Sewer and Black Face Brick.  
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**HEBRON FIRE & PRESSED BRICK CO.** HEBRON,  
NO. DAK.



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610 3rd Ave. So., Minneapolis.



## PROPOSALS FOR THREE HOSPITALS

Department of the Interior, Office of Indian Affairs, Washington, D. C., April 13, 1914. Sealed proposals, plainly marked on the outside of the sealed envelope: "Proposals for Hospitals, Cheyenne River, Rosebud and Standing Rock Indian Reservations, North and South Dakota," and addressed to the "Commissioner of Indian Affairs, Washington, D. C.," will be received at the Indian Office until 2 o'clock p. m., on May 21, 1914, for furnishing materials and labor for the construction of a frame hospital on the Standing Rock Reservation, North Dakota, and brick hospitals on the Cheyenne River and Rosebud Reservations, South Dakota, in strict accordance with the plans, specifications and instructions to bidders, which may be examined at

the office of the paper or periodical in which this advertisement appears, the U. S. Indian Warehouses at Chicago, Ill., St. Louis, Mo., Omaha, Neb., and San Francisco, Cal.; the Builders' Exchanges at St. Paul, Minn., and Aberdeen, S. D., and at the several Schools. For further information apply to the Superintendents of the Cheyenne River Indian School, Cheyenne Agency, South Dakota, Rosebud Indian School, Rosebud, South Dakota, and the Standing Rock Indian School, Fort Yates, North Dakota. CATO SELLS, Commissioner.

## ELECTRIC LIGHT PLANT.

Comfrey, Minn.

Sealed bids will be received until seven o'clock P. M., May 5, 1914, by G. W. Schaffer, Village Clerk, Comfrey, Minn.,

for the erection of a complete Electric Light Plant. Bids will be received on the whole or on separate portions as follows.

- 1st. Brick building.
- 2nd. Oil engines.
- 3d. Electrical equipment.
- 4th. Pole line.

Each bid must be accompanied by a certified check for 10 per cent of the amount bid.

Envelopes must be marked "Bid for Electric Light Plant." Plans and specifications on file at Builders' Exchanges Minneapolis and St. Paul, and office of G. W. Schaffer, Village Clerk, Comfrey, Minn.

W. C. BUCK, Consulting Engineer.

151 Curtis Court.  
Minneapolis, Minn.

## MILWAUKEE, WIS.

Office: Hathaway Building; Telephone Main 1827.  
Mails news to Minneapolis office not later than Wednesday.

*Items marked with asterisks not in Daily Sheets.*

The Badger Architects have started taking bids on a duplex flat for Max Goodsitt at 15th st., near Lloyd st., frame, brick foundation, 26x54, garage in rear, solid brick, 17x20; duplex to have tile flooring, hot water heating; cost, \$7,200. Are preparing plans for a duplex flat for erection on 14th st., near Burleigh st., of frame, with cement block foundation, 24x46, furnace heating. Have awarded on duplex flat at 7th and Davis sts., for Fred Kubbernuh; carpenter, C. Lutz; mason, Bluhm; plaster, Wm. Bernitt; sheet metal, C. Roeder; plumbing, Loppnow Bros.; heating, C. Roeder; painting and glass, Foester Bros.

Architects Fernekes & Cramer are working on plans for a stable and two silos to be erected for Fred Pabst at Oconomowoc; hollow tile and plaster, 82x212, tile roofing; also Gardner's lodge, 28x38, hot water heating; bids about May 1; preparing plans for a residence for Henry Harmon on Grand Blvd., near North av.; brick veneer, 34x36, tile flooring, hot water heating; preparing plans for a residence for J. M. Lindsay; brick veneer, tile flooring and mantels, hot water heating.

Architect A. C. Clas will take figures shortly on constructing a new public entrance and stone steps at the Auditorium at 5th and State sts.; carpenter, mason and cut stone bids. Postponed bids for one week on a machine shop at Watertown, Wis., for Otto Biefeld; one story and basement, 60x103, solid brick and steel. Ready April 27 for bids on constructing a telephone exchange for the Portage Telephone Co., at Portage, Wis.; solid brick, 2-story and basement, 26x50.

Architect Robert Schmitz has awarded on bungalow for Mrs. Anna Mahon at 13th and National avs.; carpenter, Jos. Schunk, West Allis; mason and cement, C. Jenicke; plumbing, Gauger Bros. On 4-family flat of Thomas Roberts additional: iron work, Skobis Co.; painting, P. F. Manthey. Preparing plans for a bungalow on the northeast side, to be frame and stucco, concrete block foundation, 28x36, hot water heating, asphalt shingle roofing, art glass.

Architect G. A. Dick has awarded on duplex for Mrs. M. Hoffman, at 49th and Vine sts.; carpenter, J. Bruckbacher; mason, Schmidt & Fehst; concrete, A. Huber; plaster, C. E. Bartz; sheet metal, Roden & Raschka; plumbing, Loppnow Bros. Preparing plans for a bungalow to be erected at Grafton, Wis.; frame, rough siding exterior, hot water heating, concrete foundation, 26x70; probably private water and sewer systems.

Architect Chas. Tharinger has awarded additional on F. W. Stark residence in Story Hill: furnace heating, Wm. F. Arndt; on store and flat for Norde at 48th st. and Pabst av.; plumbing, Jos. Gill; plaster Wm. Gauger; tile, Milwaukee Tile & Mosaic Co.; heating, Kaufman-Haas Heating Co.; electrical, Badger Electric Co.; painting, J. W. Henke; on duplex flat for O. C. Oppen at 35th and State sts.; mason, Lex Bros.

Architects Kirchoff & Rose, have awarded on 6-story business block for E. Rohnert at 382 E. Water st.; mason, Schuett & Frey; cut stone, General construction Co.; concrete and cement, Northwestern Concrete Co.; sheet metal, Biersach & Niedermeyer; iron work, C. Hennecke Co.; plumbing, Josepa Wittig; roofing, Cream City Roofing Co.; monolith, American Monolith Co.; terra cotta, Ricketson & Schwartz.

Architect Clare C. Hosmer is working on plans for a residence on Hi-Mount Blvd., near Washington Blvd., for Mrs.

Louise Fisher; brick veneer and plaster, 34x35, two fire places of tile and brick; hot water heating, oak and brick finish. Is figuring on remodeling a residence at Bellevue pl. and Farwell av., for S. F. Briggs; frame, tile flooring, hot water heating.

Architect John Roth Jr., has awarded on a factory to be erected on North Water st.: concrete and cement, Walter Stimple; iron work, The Skobis Co.; electrical work, Pipkorn-Henning Co. Will take bids shortly on a residence in North Milwaukee; brick veneer, 2-story and basement, 28x84, hot water heating, septic tank, private water system.

Architect A. C. Eschweiler will take figures within a few days on the construction of a 5-story and basement, 48x120, brick and fireproof telephone exchange, terra cotta front steam heating, electric elevator, composition roofing; Wisconsin Telephone Co., owner; site 442-444 Broadway; also for another exchange building at 16th av. and Lapham st.

Architect Theodore F. Schutz is ready for bids on addition and remodeling of residence for John Gengler at 493 Oakland av.: to be duplex flat, 26x54, frame, brick foundation, hot water heating. Completed plans for summer hall for Fred Roese, Pewaukee, Wis., to be erected on Pewaukee Lake; frame, 50x60, gravel roof, costing \$1,800.

## ELEVATORS

*Notes arranged alphabetically by States.*

Iowa, Sibley—Moreland & Shuttleworth elevator at Granite, Lyon county will be rebuilt.

Iowa, Yorkshire—Neola Elevator Co. will rebuild.

Mont., Broadview—A 40,000-bushel elevator will be built here, John R. Davis, president.

Neb., Loomis—Loomis Farmers' Co-operative Co., held meeting to decide on erection of an elevator.

N. D., Devils Lake—Fire destroyed Woodworth Elevator at Southham; 12,000 bushels grain burned.

Sask., Zaelanda—The Saskatchewan Co-operative Elevator Co. will build elevator here; work to commence soon.

S. D., Clear Lake—Coffey & Carlson are razing old flat building, and will build new elevator adjoining their elevator, 15,000-bushel capacity.

Wis., Bloomer—Chas. F. Murphy Co. plans addition to potato warehouse.

## BIDS WANTED.

Minn., Henning—Bids received until April 25, noon, for three additional bins to Farmers' Elevator of Henning; address, Geo. A. Paulson.

Sask., Regina—Bids called for son for office building for Saskatchewan Co-operative Elevator Co. Ltd., Storey & Van Edmond, preparing plans.

## CONTRACTS AWARDED.

Neb., Chappell—Contract for Farmers' Elevator let to R. M. Van Ness Construction Co., Fairbury, Neb.

S. D., Gallaghersville—Contract let for 30,000 bushel elevator for Farmers' Elevator Co.; cost \$6,000.

## WINNIPEG, MAN.

The following building permits were issued: W. LePage, residence to cost \$20,000, on Wellington Crescent. H. W. Greene is architect, and Sparrow Bros., are the builders; Sparrow Bros., also received permit for residence, to cost \$12,000 on Oxford st.; Asrican & Costell, two dwellings, Alfred av., \$5,200; Davidson & Thorarinson, two dwellings, Sher-



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burn st., cost \$5,000; J. E. Weimer, two dwelling, \$4,400; M. Dimenstone, two dwellings, at \$3,000; F. R. Nears, dwelling, \$2,000.

Bids received until noon Friday May 1, for a 2-room brick school house, veneer, Brant consolidated school district No. 1703, Argyle station, to be finished Aug. 1; check 5 per cent; plans at office of architect, Frank R. Evans, 506 Somerset block, Winnipeg, or at secretary-treasurer's office at Strathewan, P. O., Man.; W. F. Osborn, secretary.

The following building permits were issued in Assiniboia: Heffren & Corburn, dwelling, \$3,000; W. Shilling, cottage, \$1,000; A. Berguist, dwelling, \$2,500; Hunter & Cutter, two cottages, \$1,000; E. A. Rush, cottage, \$1,000; D. E. Campbell, two cottages, 2,000; G. H. Miller, three cottages, \$3,000; W. Aheir, two cottages, \$2,800.

The West End Realty Co. will take out building permits aggregating in value over \$160,000, will build also in St. James, houses aggregating \$50,000; or total of \$250,000 for houses alone; majority of houses will be in Ft. Rouge, on Dorchester, McMillan and Yale avs., costing each \$18,000.

The West End Realty & Building Co. took out permit for erection of 30 houses to cost \$160,000, Ft. Rouge, Dorchester, McMillan and Yale avs., the houses on later street to cost \$18,000 each; houses will also be built on Lenore and McPhillips sts., by same company.

Permit has been taken out for the erection of new Knox church on corner of Qu'Appelle av., and Edmonton st., to cost \$200,000; plans have been prepared by J. H. G. Russell, architect, and contract was awarded to the J. McDiarmid Construction Co.

W. M. Scott, engineer, 204 Sterling Bank building, Winnipeg, has plans and tenders are wanted by G. P. Campbell, secretary treasurer, town of Transcona, Man., to April 20, for ornamental iron fencing.

Tenders are being called for the erection of two additional stories to the Kensington block, corner of Smith st. and Portage av. John O. Atchinson & Co., are the architects for the work.

Tenders are wanted to April 28, by chairman, board of control for supply of all labor and materials required in the erection of a residence for the medical superintendent at municipal hospital.

A new telephone exchange building will be erected on corner of Rutland and Ness av. in St. James district; V. W. Horwood, architect, will have charge of construction work.

Frank R. Evans, architect, 506 Somerset block, Winnipeg, wants tenders to May 1, for erection of a brick veneer school for Brant consolidated school district at Argyle station.

The West Kildonan council propose submitting a by-law for the building of municipal offices and fire hall at corner of Aitkins and Hartford av., to cost \$13,000.

Tenders are wanted to April 27, by chairman, board of control, for supply of gate valves for the domestic water works system.

Tenders are wanted to April 30, by chairman, board of control, for supply of one 10-ton macadam 3-wheel steam or gasoline roller.

A new church to cost \$350,000 will be erected by St. Mary's Catholic church on Ellice av., east of Donald st.

## SIoux CITY, IOWA

Sioux City Office: 310 Iowa Building. R. V. Sager, Representative.

\*The Val Blatz building which was recently destroyed by fire, will be remodeled and rebuilt. The front wall of brick and terra cotta, which is left standing, will be retained. The building will be 3-story as it formerly was. Beuttler & Arnold are drawing the plans for the remodeling.

\*The contract for the heating and plumbing for the building for the Sioux City Journal was let to A. J. Cunningham for \$6,455. The contract for the wiring was let to the Ideal Electric Co. for \$2,396. W. L. Steele, architect, United Bank building.

\*Beuttler & Arnold, architects, Security building, are drawing plans for the Masonic Temple at Bloomfield, Nebraska. It will be 1-story and basement, brick construction, 30x60 feet, and will cost about \$7,500.

\*W. L. Steele, architect, is drawing plans for a residence for Rev. T. J. McCarty, of St. Joseph parish, at Carroll, Iowa. It will be brick veneer and will cost about \$10,000.

\*W. L. Steele, architects, is drawing plans for a residence for Rev. Michael Brady at Hawarden, Iowa. It will be frame construction, modern, and will cost about \$6,000.

\*Beuttler & Arnold, architects, are drawing plans for a

4-room addition to the Everett school building and a 4-room addition to the Joy school building.

\*Plans are out ready for bids for the garage for Geo. C. Call. Bids will be opened April 27. Beuttler & Arnold, architects, Security building.

\*W. L. Steele, architect, is drawing plans for a church, school and parochial residence for the Church of the Holy Name at Marcus, Iowa.

## DES MOINES, IOWA

Bert N. Mills, representative, 310 Hubbell Building.

Paving will cost this year \$100,000 according to resolutions of necessity as passed by the city council. East 14th st. will be paved; work will start at E. 9th and Hull and thence to 14th st., which will be paved from that point to the city limits. The same street will be paved from Grand av. to Hull av., Arlington av. is to be paved from Clark st. to College and 37th st. N. from Woodland av. for a distance of 700 feet. Petitions are on file also for paving on Schriver av. from 53d to 56th st.

The W. T. Joyce Co., lumber, doing business in more than a score of towns and cities in Iowa and Minnesota, has been granted permission by the Iowa executive council to re-issue stock to the amount of \$550,000. The firm has its headquarters in Clinton.

Work is nearing completion on the new plant of the Des Moines Clay Co. The factory, with new machinery and equipment, will cost \$60,000. Fancy brick and tile for decorative purposes will be included in the output of the plant.

The V-Ray Co. of Marshalltown, spark plug manufacturing concern, announces that a large addition to its factory is approaching completion. The capacity of the factory will be 3,000 spark plugs a day.

Work has started on a big new garage and automobile storage building here for Ernest W. Brown. A large amount of excavation work is being done for the building; Chestnut st. near 4th.

Excavation has begun on a large addition to the Troy laundry at Chestnut near 6th av.

## OMAHA, NEB.

Architect Prinz, had the bids for C. H. Picken's new home on 39th near Dodge and the award was to be made this week.

Washed air driven through a tank 9x9 by 5 feet, purified and cooled 15 degrees by 300 sprays, will be driven through the new U. S. National bank building. The ventilating system is in two units, one for the bank and the other for the stores and cafeteria. Palmer pink granite, a gray pink, from Maine will form the basement, and first story walls on the new bank and Bedford buff stone the stories above.

Bids in at the office of Architect Lawrie for the new plant of the Alamito dairy and a contract was let this week. The main plant will be built at 26th and Leavenworth, and the building will be two stories and a basement high, fireproof and 58x96.

Architect Prinz, Robert Iempster of the 1st Presbyterian church building committee and N. H. Loomis, chairman of the general committee, conferred on plans for the new church and a residence for the pastor.

Chas. H. Cady, photographer, 16th and Madison, has begun a studio and gallery, 2-story and basement, \$7,900, to be finished Aug. 1.

Thos. Herd has the contract for building the interior of the L. C. Nash home, 38th and Burt, which will run to \$15,000 or \$20,000.

Work is expected to begin next week on the \$500,000 Rock Island freight station and terminals under the 16th st. viaduct.

\*Harry A. Turkey will build a residence for himself and start 6 others, all modern, \$6,000 to \$20,000, in Happy Hollow.

\*Bids being taken on N. P. Burger apartment, 3-story, 6 suites, 25th and Dewey; plans by Henninger, architect.

\*Thos. Herd has the contract for the Charles E. Perkins' residence; Geo. Prinz, architect.

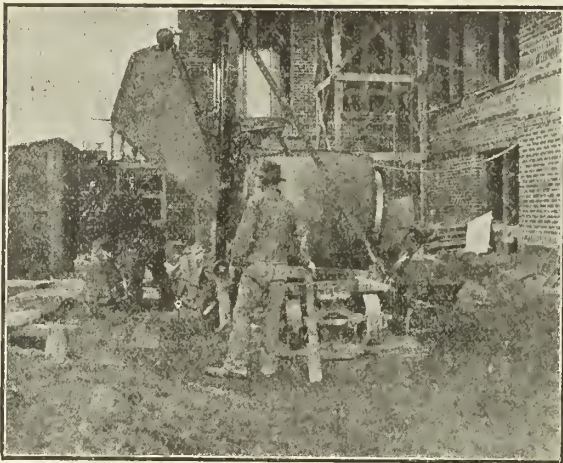
The Burlington road will begin work on two viaducts soon, 39th to 40th av., 42d and 43d.

\*Judge James Neville plans \$140,000 construction, stores or apartments, this year.

\*R. B. Busch, Crane Co., will build 3 stores at Capitol and 24th.



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## STREET AND ROAD WORK

*Notes arranged alphabetically by States.*

*Items marked with asterisks not in Daily Sheets.*

**Iowa, Cedar Rapids**—Hearing May 8 on concrete paving on "B" av. and 22d st.; L. J. Storey, city clerk.

**Iowa, Des Moines**—Hearing April 29 on improving 46th st. by curbing with Portland cement; Horace Susong, city clerk.

**Iowa, Des Moines**—Hearing May 13, on paving W. 44th and W. 27th sts., with Warren Bros.' bitulithic; also for curbing on 44th st. and W. 17th st., with Portland cement; Horace Susong, city clerk.

**Iowa, Le Mars**—All bids rejected, city council having decided to include asphalt.

**Mont., Bozeman**—Total estimated cost street work for year is \$91,200, all of which will soon be under headway; comprises walks, curbs, parkings and a large amount bitulithic pavement; address city clerk.

**Mont., Harlowtown**—City engineer instructed to prepare plans for cement walks in district No. 2; cost \$13,000; address city clerk.

**S. D., Vermillion**—Hearing April 20 on curbing on Main st.; C. T. Vaughn, city auditor.

**Wis., Madison**—Plans completed for laying asphalt on Henry Gilman and Van Hise streets, also two blocks on W. Main st. and Atwood av.; address city clerk.

### BIDS WANTED.

**Iowa, Anamosa**—Bids received by E. J. Hines, county auditor, until 10 a. m., May 5, for road improvements between here and Wyoming, earth and rock excavation on Hanlon and Porter hills; check 5 per cent.

**Iowa, Clarinda**—New bids received by T. A. Wilson, city clerk, until May 5 for 23 blocks Portland cement paving, all previous bids having been rejected.

**Iowa, Fort Dodge**—Bids received by J. L. Porter, secretary school district, until 7:30 p. m., May 5, for a cement curb around track at athletic field on one school ground; cement walk at another and cement retaining wall at another.

**Iowa, Sioux City**—City will soon advertise for bids on about 2 miles cement sidewalk; also considering about 7 blocks paving in Morningside; P. J. Wells, city clerk.

**Iowa, Vinton**—Bids called for paving Main st. and alleys in 3 blocks, vitrified brick and concrete; address city clerk.

**Man., Killarney**—Bids received by rural municipality until 10 a. m., April 29, for elevating grader.

**Man., Winnipeg**—Bids received by M. Peterson, secretary board of control, until 11 a. m., April 30, for 10-ton macadam 3-wheel steam or gasoline roller.

**Minn., Borup**—Bids received by John J. Arends, town clerk, until 2 p. m., April 29, for 2½ miles of road, ditches both sides grade; check 5 per cent.

**Minn., Chokio**—Bids received by J. J. Honzo, town clerk Eldorado township, Stevens county, until 2 p. m., May 2, for four miles highway.

**Minn., Cloquet**—Bids received by J. A. Parks, city clerk, until 5 p. m., May 5, for walks, cross walks and curbs for 1914; check 10 per cent.

**Minn., Duluth**—Bids received by R. Murchison, commissioner public works, until 10 a. m., May 1, for grading and graveling Kenwood road; check 10 per cent.

**Minn., Duluth**—Bids received by R. Murchison, commissioner public works, until 10 a. m., May 1, for two carloads vitrified brick, 8½ long by 3 1-4 wide by 4 inches deep; check 10 per cent.

**Minn., Duluth**—Bids received by O. Halden, auditor, St. Louis county, until 2 p. m., May 5, for road and bridge work in county, includes clearing, grubbing, corduroying, ditching and constructing highways, and three bridges; check on bridges 10 per cent.

**Minn., Ellsworth**—Bids received by Gus. Swanberg, auditor, Nobles county, until 2 p. m., May 5, for 33,707 lineal feet road work, requiring 14,152 cubic yards grading, 16,846 lineal feet turnpiking, 23 concrete culverts, estimated to cost \$5,657; check 5 per cent.

**Minn., Faribault**—Jesse L. Herring, auditor, Faribault county, authorized to purchase grading machine.

**Minn., Glyndon**—Bids received by B. J. Gunderson, town clerk, until May 4, for grading several miles of road, with ditches, etc.; check 5 per cent.

**Minn., Grand Rapids**—Bids received by M. A. Spang, auditor Itasca county, until 10 a. m., May 8, for construction of division K, L, and M of Duluth-St. Vincent road, a total of 7.11 miles; check 5 per cent; also, at same time for Deer River-Northome trunk line, 38.58 miles; 5 per cent check;

also, at same time, for construction of divisions of 1 to 8, west section Marcel-3d River trunk line road, 15.12 miles; check same; also, at same time, for 10-ton road roller.

**Minn., Herman**—Bids received by F. C. Anderson, until 2 p. m., May 2, for construction of 4 miles highway in Eldorado township, either for the full 4 miles, or for each separate mile.

**Minn., Hibbing**—Bids received by Victor J. Benoe, town clerk, until 8 p. m., May 6, for various roads in town of Stuntz; check 10 per cent.

**\*Minn., Hopkins**—Bids received by E. A. Close, recorder, until 7 p. m., May 5, for an 8-inch cast iron gas main. Officially advertised in this issue Improvement Bulletin.

**\*Minn., International Falls**—Bids received by L. H. Slocum, auditor, Koochiching county, until 2 p. m., May 8, for construction of state rural highway No. 9, about \$237,000; also, at same time, for state rural highway No. 5, estimated to cost \$25,661; checks 5 per cent. Officially advertised in this issue of the Improvement Bulletin.

**Minn., International Falls**—Bids received by county auditor until 2 p. m., May 8, for state rural highway 5, all or part, estimated \$25,661, 22.23 miles; plans with county auditor and highway commission; check for 5 per cent. L. H. Slocum, auditor; L. A. Ogaard, engineer. Officially advertised in the Improvement Bulletin this week.

**Minn., International Falls**—Bids received by County Auditor until May 8, 2 p. m., for state rural highway 9, all or part, division A, estimated at \$12,265, road; division B, ditch, est. \$45,476; division C, road, est. \$4,450; division V, road, \$16,203; division E, road, \$50,775; plans with county auditor and state highway commission; check for 5 per cent. Elliott Slocum, auditor; La Ogaard, engineer. Officially advertised in the Improvement Bulletin this week.

**Minn., Kennedy**—Bids received by Chas. J. Estlund, city, no date set, for 74 feet of 5-foot concrete walk and 131 feet of 4-foot walk, stating thickness believed to be most practical.

**Minn., Kennedy**—Bids received by Thos. Anderson, village clerk, until May 2, for approximately 7,350 square feet cement walk and one cross-walk, contractor to furnish everything except gravel; give price per square foot.

**Minn., Long Prairie**—Bids received by E. M. Berg, auditor Todd county, until 7:30 p. m., May 6, for 2 8-horse graders, 3 2-horse graders, 12 road drags; check 5 per cent.

**Minn., Long Prairie**—Bids received by E. M. Berg, auditor, Todd county, until 1 p. m., May 4, for two jobs county road work, clearing, grubbing, grading, turnpiking and ditching; check 5 per cent.

**Minn., Minneapolis**—Bids received by Kossuth E. Alexander, city purchasing agent, until 3 p. m., April 24, for about 3,360 cubic yards binder stone.

**Minn., Minneapolis**—Bids received by Kossuth E. Alexander, city purchasing agent, until 3 p. m., April 27, for 750 tons asphalt binder; specimens to be submitted and check for \$300.

**Minn., Olivia**—Bids received by J. L. Johnson, auditor, Renville county, until 1 p. m., April 28, 1 or more Russell elevated road graders; 1 or more Austin-Western elevated road graders; 1 or more Chamberlain elevated road graders; 1 or more other standard elevated road graders, all to be of contractor's size, tractor hitch, with both disk and colter plows, also 4 or more dump wagons and 4 or more wheel scrapers; check 5 per cent.

**Minn., Red Lake Falls**—Bids received by H. W. Ward, city recorder until May 11, for cement walks.

**Minn., Two Harbors**—Bids received by John P. Paulson, auditor, Lake county, until 10 a. m., May 5, for clearing, grubbing and grading Drummond road; check 5 per cent.

**Minn., Waseca**—Bids received by Theodore Peterson, auditor, Waseca county, until 2 p. m., May 1, for state rural highway No. 34 of Waseca and Rice counties, in one job or sections of 100 feet each; work comprises 32,936 cubic yards grading, 13,552 yards graveling, 38,994 feet turnpiking, 182 cubic yards ditching, 236 square rods grubbing and clearing and 64 culverts, 12 miles long, and estimated to cost \$22,632. Check for 10 per cent.

**Minn., Winthrop**—Bids received by Chas. W. Bauer, supervisor of Transit township, for grading and graveling at various points in township on May 4th, 5th, 6th, 14th and 15th.

**Mont., Kalispei**—Bids received by C. J. McAllister, city clerk, until May 4, for cement walks and curbs and one year; check \$100.

**Neb., Falls City**—Bids received by city clerk until May 14, for paving.

**Neb., Lincoln**—Bids received by Theo. H. Berg, city clerk, until 2 p. m., April 28, for paving in districts 48, 266 and 181, estimated to cost \$30,800.

**Neb., Lincoln**—Bids received by Theo. H. Berg, city clerk,



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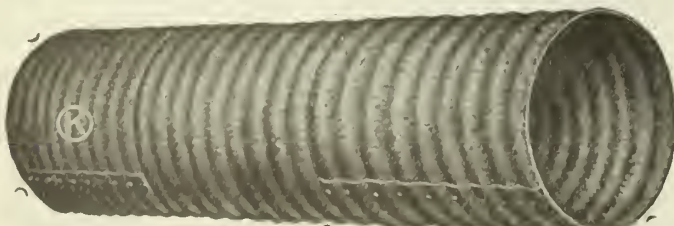
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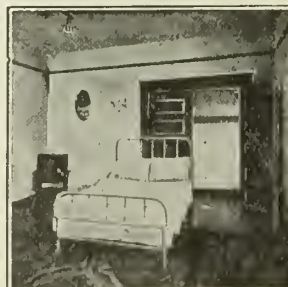
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until 2 p. m., April 28, for three jobs paving, asphaltic concrete and vitrified brick, some sewer work, at \$20,200, \$7,500 and \$3,100 respectively.

**N. D., Bismarck**—Bids received by T. E. Flaherty, auditor Burleigh county, until 10 a. m., May 6, for road grading; check 5 per cent.

**N. D., Cathay**—Bids received by Louis Riedesel, township clerk, (no date given), for grading or turnpiking certain roads.

**N. D., Harvey**—Bids received by Fred B. Paul, auditor Wells county, until 2 p. m., May 4, for grading approaches to bridge on James river; check 5 per cent.

**N. D., Kramer**—Bids received by A. H. White, township clerk, until April 30, for 3½ miles grading; bond for faithful performance.

**N. D., Mohall**—Bids received by Peter Carlson, auditor, Renville county, until 2 p. m., May 1, for 1,400 cubic yards grading; check 5 per cent.

**N. D., New Rockford**—City auditor instructed to advertise for bids for cross walks and additional sidewalks.

**S. D., Watertown**—Bids received by O. M. Lane, city auditor, until 8 p. m., May 4, for 22,500 square yards paving, either Portland cement concrete, vitrified brick, asphaltic concrete or creosoted block pavement; check \$300.

**Wis., Janesville**—City wants bids on 125,000 gallons road oil for use in 1914; address city clerk.

**Wis., Richland Center**—Bids received by O. H. Kidd, chairman board of public works, until 4 p. m., May 15, for approximately 6,056 square yards reinforced concrete paving, 1,683 lineal feet combination curb and gutter, 260 feet concrete waterways. Check for 5 per cent.

**Wis., Richland Center**—Will readvertise for concrete paving, previous bids not accepted; E. J. Lunenschloss, city engineer.

**Wis., Superior**—Bids soon be called for by board public works for rock concrete paving on Iowa av., 30 feet wide, between Belknap and 21st sts.

**Wis., Watertown**—Bids received by Jas. W. Moore, until noon, May 1, for a cement walk 4 feet wide and 700 feet long.

#### CONTRACTS AWARDED.

**Iowa, Atlantic**—Contract with P. V. Hansen & Son, Sioux City, for 56 blocks concrete paving.

**Iowa, Fort Madison**—Contract with J. M. Stowe, city, for cement crossings for year.

**Iowa, Jefferson**—Contract for six miles grading on Lincoln highway to Warren Shipman, Sioux City, Iowa.

**Iowa, Leon**—Contract with Ford Paving Co., Cedar Rapids, Iowa, for 6,000 yards paving at \$2.10 per square yard.

**Iowa, Missouri Valley**—Contract with Public Service Construction Co., Omaha, for curbs and gutters.

**Iowa, Nevada**—Contract with P. E. Shugart for paving from depot to depot.

**Minn., Albert Lea**—County board purchased 40 h. p. engine from Twin City Engine Co. at \$2,700; also two Adams graders, 12-foot blades, at \$1,500.

**Minn., Blue Earth**—Contract with Hill, Grinnell & Headley Co. for 23 8-foot drags at \$15.05 each, f. o. b. station.

**Minn., Brice lyn**—Contract with P. S. Odden of Kiester for mile of road at \$537 on one plan and at \$1,092 on another.

**Minn., Duluth**—Contract with Purington Paving Brick Co., Galesburg, Ill., for 30,000 square yards vitrified brick at \$1.10.

**Minn., Granite Falls**—Hearing by county board April 29, on state rural highway; S. O. Tjosvold, auditor Yellow Medicine county.

**Minn., Hibbing**—Contract with John K. Maki for combination sprinkler and street flusher at \$4,650, f. o. b. Hibbing.

**Minn., New Ulm**—F. D. Minium, city engineer, writes that engineering work for the paving has begun.

**Minn., Princeton**—Contract for road work to Walton-Coor Contracting Co., Minneapolis, at \$17,682; (note correction firm name).

**Minn., Roseau**—Contract with Ceslak Listag, Ross, for mile road work at \$240.

**Mont., Anaconda**—Contract to J. I. Kunkel for concrete walks at 18c a square foot and 50c a lineal foot for curbing.

**Mont., Billings**—Contract with Wesch & Berry for alley paving at \$2,470 in one district only.

**Mont., Missoula**—Contract with J. E. Wilson, city, for paving alleys at \$892, and for sidewalks at 14¾c per square foot; F. E. Buck, city engineer; W. H. Smith, city clerk.

**Neb., Lexington**—Contract for walks around court house to Grantham & Smith.

**Neb., Omaha**—Contracts with Jos Sesto and C. Vacanti for sidewalks.

**Neb., Rulo**—Contract with Falls City Construction Co. for 1,200 feet sidewalk for Catholic church.

**Wis., Appleton**—Contract with Herman Wildhagen, city, for Appleton-Menasha concrete road, 3,000 lineal feet, at \$6,000.

**Wis., Fond du Lac**—Contract with G. H. Stanchfield and Franz Radloff Co. for paving Marquette st. and Park av., at \$19,314 and \$21,194, respectively.

**Wis., Green Bay**—Contract to J. Young & Bro. for Cedar road in Preble township at about \$17,500.

**Wis., Green Bay**—Contract to White Construction Co., Milwaukee, for paving various streets with asphalt at 112,440.

**Wis., La Crosse**—City engineer directed to prepare plans and specifications for improving Wood st. with asphaltic macadam; E. H. Hoffman, city clerk.

**Wis., Monroe**—Contract with Thos. W. Quinn, Madison, for paving, bid being \$2.32 per square yard for creosoted wood blocks, \$1.90 for vitrified brick, \$2.75 for sandstone, tar filled macadam, \$1.45.

## BRIDGES

*Items marked with asterisks not run in Daily Sheets.*

*Notes arranged alphabetically by States.*

**Minn., Ada**—County Engineer Erickson has taken levels for construction of a bridge near Theo. Pinske's farm on town line between Wild Rice and Strand townships.

**Minn., Northfield**—Martin Hyde of Minneapolis, representing C. A. P. Turner, consulting engineer, has submitted plans for Center st. bridge.

**Mont., Bozeman**—Citizens of Willow Creek (a new town) headed by K. W. Hale petitioned county commissioners for a new bridge over Jefferson river.

**Mont., Butte**—Plans for construction of new steel bridge over Big Hole river are being considered by Silver Bow and Beaverhead county commissioners; C. W. Francis, H. C. Patterson and Theo. Nelson, committee.

**N. D., Mandan**—Fargo Bridge & Iron Co. will begin work at once on bridge over Heart river; will have a span 200 feet and cost \$13,000.

**N. D., Marmarth**—Billings county voted \$5,000 towards construction of a bridge over the Missouri here. This action leaves about \$10,000 of the money to be raised from outside localities. Said bridge will be on the Yellowstone Park auto road.

**Wis., De Pere**—Town of Roakland raised \$1,000 to rebuild the Devil river bridge on the Blake road.

**Wis., Superior**—Congressman C. B. Miller of Duluth, introduced a bill in the house granting to St. Louis county the right to build a bridge over the St. Louis river at Fond du Lac.

#### BIDS WANTED.

**Iowa, Sumner**—Bids received by W. H. Pockels, county auditor, May 4, 2 p. m., two reinforced concrete piers and two reinforced concrete abutments in section 16; check for 5 per cent.

**Minn., Detroit**—Bids received by W. J. Morrow, county auditor, 2 p. m., May 6, for building state bridge No. 791, in town of Atlanta; superstructure 30-foot span, 7-inch steel beam foundations; check for 5 per cent.

**Minn., Duluth**—Bids received by O. Halden, county auditor, 2 p. m., May 5, for a steel or reinforced concrete or timber bridge across Pike river in section 26, steel or reinforced concrete bridge over Keene's creek on Gatchell road; steel bridge across St. Louis river on Bodas road; check for 10 per cent.

**Minn., Fairmont**—Bids received by C. L. Larson, town clerk, of Lake Fremont township, 11 a. m., May 1, for construction of 2 30-foot span bridges across Ten Mile creek; check for 5 per cent.

**Minn., Grand Rapids**—Bids received by M. A. Spang, auditor, 10 a. m., May 8, for bridge across Balsam brook on Hill City-Big Fork trunk line road; check for 5 per cent.

**\*Minn., Hastings**—Bids received by P. A. Hoffman, county auditor, until 10 a. m., May 12, for state bridge No. 746. Check for 5 per cent. Officially advertised in this issue of the Improvement Bulletin.

**Minn., Long Prairie**—Bids received by Chas. J. Spieker, clerk, 10 a. m., May 2, for building stone abutment and concrete top bridge across Turtle creek.

**Minn., Long Prairie**—Bids received by E. M. Berg, county auditor, until 1 p. m., May 4, for building state bridge No. 1291 across Silver creek; 20-foot span, 18-foot roadway, concrete floor on 1-beam abutment foundation. Check for 5 per cent.

**Minn., Luverne**—Bids received by John Kelley, auditor, 2 p. m., May 20, for furnishing material and building 2 bridges



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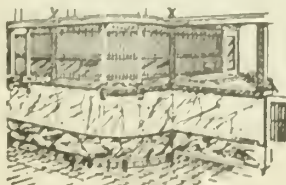
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**Minn., Moorhead**—Bids received by C. M. Steen, chairman, 2 p. m., May 1, for three steel and concrete bridges; separate bids on each bridge; plans at office of Hopeman Construction Co., Moorhead; check for 10 per cent.

**Minn., St. James**—Bids received by J. C. Jensen, until 2 p. m., April 28, for building state bridge No. 1254 on state road No. 5, in township of Adrian; 14-foot span, 18-foot roadway, concrete slab floor, reinforced concrete foundations.

**Minn., Wadena**—Bids received by W. W. Ames, chairman, 3 p. m., May 8, for building bridge between sections 29-32, town of Wing River, 50-foot span, 16-foot roadway, reinforced concrete foundation; check for 5 per cent.

**\*Minn., Walker**—Bids received by I. P. Byrhe, auditor, Cass county, until 2 p. m., May 9, for three steel bridges; check 10 per cent; officially advertised this issue Improvement Bulletin.

**Mont., Butte**—Commissioners of Silver Bow and Beaverhead counties will receive bids soon for a bridge over Big Hole river at the dam; bids will be taken on both concrete and steel.

**N. D., Fessenden**—Bids received by Fred B. Paul, county auditor, May 4, 3 p. m., for a bridge 32x18-10; check for 5 per cent.

**N. D., Minnewaukon**—Bids for culverts rejected, new bids on corrugated metal culverts opened 10 a. m., May 5; check for \$50; W. E. Paulson, county auditor.

#### CONTRACTS AWARDED.

**Iowa, Jefferson**—Contract to Koss Construction Co., Des Moines, for building Head memorial bridge on Lincoln highway, at \$6,200.

**Minn., Caledonia**—Timothy McCarthy local contractor got contract for bridges and culverts at \$3,798.

**Minn., Center City**—Wm. O'Shea & Sons, Minneapolis, got contract for bridge No. 1176 at \$2,388.

**Minn., Chaska**—Hewitt Bridge Co., Minneapolis, received contract to build approaches to the bridge here at \$1,795.

**Minn., Crookston**—Peter Cramer with the North Dakota Culvert Co., Fargo, with headquarters here, got contract for \$20,000 worth of culvert work in Aitkin.

**Minn., Eveleth**—Lawrence McCann Co. got contract for slab bridge on Adams av. at \$1,000.

**Minn., Sartell**—Contract for Sartell bridge let to Minneapolis Steel & Machinery Co., at \$23,000. There were 14 bids submitted, the highest was by the Illinois Bridge, at \$31,947.

**N. D., Cando**—N. D. Metal Culvert Co., Fargo, got contract for metal culverts.

**N. D., Grand Forks**—Jardine & Anderson of Hillsboro, received contract for county bridge work for this year.

**N. D., Napoleon**—Gilbert Manufacturing Co., Aberdeen, S. D. got contract for steel and galvanized culverts at \$583.

**Wis., Fond du Lac**—Vulcan Manufacturing Co., Fond du Lac, got contract for concrete bridge at \$2,090.

## SEWERS

*Notes arranged alphabetically by States.*

*Items marked with asterisks not in Daily Sheets.*

**Alta., Camrose**—Citizens voted in favor of sewer work; address the Reeve.

**Alta., Calgary**—Plans being prepared for sewage disposal plant to take care of all city sewage; A. G. Graves, city commissioner.

**B. C., Vancouver**—City contemplates spending \$2,000,000 for sewers; A. G. Dalzell, assistant city engineer.

**Iowa, Cedar Rapids**—Hearing May 8, on sanitary sewers, 8 and 10-inch vitrified pipe, in various streets; L. J. Storey, city clerk.

**Iowa, Spencer**—Hearing June 5 on 8 and 10-inch salt-glazed vitrified pipe sewers in various streets; Etta M. Smith, city clerk.

**Minn., Alberta**—A sewer system is contemplated; address town clerk.

**Minn., Deerwood**—Sewer system to cost \$10,000 probable; bonds to be sold April 27; address village clerk.

**Minn., Virginia**—Plans reported prepared for improvements and construction of sewer system to cost \$45,000; address city clerk.

**Mont., Billings**—Hearing May 5 on three sewer districts, estimated cost \$20,000; address city clerk.

**Mont., Great Falls**—Hearing May 4 on 3 lateral sewers; W. H. Harrison, city clerk.

**Mont., Valier**—Plans in progress by C. H. Green, Spokane, Wash., for sewer system.

**Neb., Bridgeport**—Meeting held April 23, to consider report on sewer system; address Mark Spanogle, president, Commercial club.

**Neb., Newcastle**—A sewer system is proposed; address Jas. Curry.

**Neb., North Platte**—Sewer lateral district "J" is being established; Chas. F. Temple, city clerk.

**Neb., Omaha**—H. J. Petersen, Bee building, city, low bidder on sewer work in village of Dundee at \$8,373; King-Rohrbaugh Co., engineers, city.

**Neb., Stanton**—Sewer system contemplated; address city clerk.

**N. D., Park River**—Plans completed for sewer system to cost \$20,000; address city clerk.

**Wis., Sheboygan**—Work has been started by Peter Borst, Port Washington, on sewer work here.

**Wyo., Sheridan**—A \$40,000 sewer system proposed; address city clerk.

#### BIDS WANTED.

**Iowa, Cedar Rapids**—Bids received by L. J. Storey, city clerk, until 10 a. m., April 27, for 6, 8 and 10-inch sanitary sewers in various sts., work to begin by May 4; check 5 per cent.

**Minn., Duluth**—Bids received by R. Murchison, commissioner, until 10 a. m., May 1, for sanitary sewer in Duluth Heights, etc.; check 10 per cent.

**Minn., Kasson**—Bids received by Geo. R. Little, village recorder, until 8 p. m., May 8, for sewer in district No. 11; check for 15 per cent; L. P. Wolff, consulting engineer, St. Paul.

**Minn., Mankato**—Bids received by F. W. Bates, city clerk until 9:30 a. m., April 27, for sanitary sewer on Washington st.; check 10 per cent.

**Neb., Grand Island**—Bids received by H. E. Clifford, city clerk, until 8 p. m., May 6, for a 15-inch sewer, etc.; check 5 per cent.

#### CONTRACTS AWARDED.

**Iowa, Burlington**—Contract to Geo. Peterson for sewer in east side Main st. and an alley.

**Iowa, Cedar Rapids**—Contract with Dearborn & Jackson for sewer in 16th st.

**Iowa, Mason City**—Prof. Bass of state university says it will be necessary to raise sewage 14 to 16 feet by pumping station at an estimated cost of \$85,000; J. H. McEwen, city clerk.

**Iowa, Sioux City**—Contract with J. F. Devlin, 1308 6th st., for half mile sanitary sewer in W. 6th., Fairmount and Irene sts.

**Minn., Rochester**—Contract with Aylward Sons Co., Neenah, Wis., for catch basins and curb inlets for storm sewers at \$448; and with Red Wing Sewer Pipe Co. for sewer pipe at \$3,502.

**Mont., Kalispel**—Contract with C. H. Kelly of the Flathead Commercial Co. for sewer in district 151 at \$1,550, and in

**Neb., Lincoln**—Contract with J. M. Diefenbaugh, city, for sewer work at \$387.

**Wis., Beaver Dam**—Contract with Carl F. Stein for sewer work at 1.25 per foot for 350 feet sewer and \$50 per manhole.

**Wis., Menomonie**—Contract to Kirscher Bros., St. Paul, for sewer work at \$24,581, main 36-inch sewer to be of segmental blocks.

## WATER WORKS

*Notes arranged alphabetically by States.*

**Iowa, Dubuque**—A reservoir will be constructed on Kelley's Bluff for local water works system, cost \$100,000; H. Maury, Chicago, consulting engineer.

**Iowa, Stanton**—Election May 4, to vote on bonds for \$12,000 for water works.

**Minn., Litchfield**—Mayor Kron says a new tank and tower is needed this season and recommends a 100-foot steel tower and 75,000-gallon tank.

**Minn., Redwood Falls**—Directors of First National Bank voted to buy a drinking fountain and present it to the city.

**Minn., Sanborn**—National Co., South Bend, Ind., were low for water works system here at \$8,648.

**Mont., Roundup**—City bought the water plant for \$60,000.

**Neb., Brunswick**—Water bonds for \$12,000 were voted.

**Wis., Altoona**—Waterworks are being considered by council. J. P. O'Connell, mayor.

**Wis., Bangor**—Bangor volunteer fire department voted \$450 for extension of water mains across the creek.



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**Wis., Elberon**—Business section burned; town has no fire protection.

**Wyo., Casper**—Election May 13 to vote on issuing bonds for \$75,000 for water works.

#### BIDS WANTED.

**\*Iowa, Stanwood**—Bids received by Wm. M. Thompson, city clerk, until 8 p. m., May 5, for constructing waterworks. Check for \$500. Officially advertised in this issue of the Improvement Bulletin.

**\*Minn., New Ulm**—Bids received by F. D. Minium, city engineer, until 5 p. m., May 5, for a concrete reservoir, etc.; check \$300; officially advertised this issue Improvement Bulletin.

**Minn., New Ulm**—Bids received until 5 p. m., May 5, for construction of a reinforced concrete reservoir, with all piping and appurtenances thereto. Check for \$300. A. J. Meyer, city clerk.

**Minn., Sleepy Eye**—Bids received by H. C. Peterson, 8 p. m., May 5, for constructing a 10-inch well, contractor to furnish casing and material.

**Minn., Stillwater**—Water board will open bids May 4 for having two steel standpipes raised. Bids not advertised. Lewis W. Clarke.

**S. D., Beresford**—Bids received by Frank Bruehler, city auditor, May 4, 6 p. m., for construction, furnishing all material and labor, for a 100,000-gallon water tank. Check for \$50.

**\*S. D., Madison**—Bids received by Geo. H. Waskey, mayor, until 8 p. m., May 11, for constructing a well. Check for \$300. Officially advertised in this issue of the Improvement Bulletin.

**S. D., Sioux Falls**—Bids received by Walter C. Leyse, city auditor, until 9 a. m., April 23, for water connections on Duluth av. from 1st st. to 18th st. Check for \$25.

#### CONTRACTS AWARDED.

**Ida., Salmon City**—Vogier Plumbing & Heating Co. received contract for water works system at \$6,398.

**Mont., Kalispel**—Contracts let for material for city reservoir to Kalispel Mercantile Co., for cement; U. S. Cast Iron Pipe Co., pipe; Washington Pipe & Foundry Co., valves; E. T. Crow & Co., sewer pipe. City clerk was ordered to advertise at once for bids for excavation of pipe line from pumping plant to reservoir, 3,400 feet.

**Neb., Hastings**—Berger Construction Co. has been awarded contract for water extensions on Hewitt and Webster av.

**Wis., Wausau**—Hearing May 28 on ditch petition, Dancy district.

**Wyo., Sheridan**—Homesteaders in Pavillion and Riverton districts will start soon their own irrigation system, 7,000 acres.

#### BIDS WANTED.

**Iowa, Council Bluffs**—Bids received on Noble Lake drain district, until 1:30 p. m., May 2, 4-sections, 50,000, 6,090, 8,000, and 1,300 yards; plans at office of J. D. Hannan, county auditor; check 10 per cent.

**Iowa, Pocahontas**—Bids received until May 8, 1 p. m., for cleaning certain portions of joint drainage district No. 63; check 10 per cent, J. R. Martin, auditor, Palo Alto county, L. O'Donnell, auditor, Pocahontas county.

**Iowa, Roland**—Bids received until April 25, noon for laying tile drain, from point on Abel Olson's farm along road, east to corner and branches, for particulars, write E. M. Rod, township clerk.

**Iowa, Tipton**—Bids received until April 27, 7:30, for digging and filling ditch, laying 2,000 feet water pipe, 4-inch; setting 4 hydrants; Phillip D. Ketelson, city clerk.

**\*Minn., Aitkin**—Bids received by J. B. Lemire, auditor, Aitkin county, until 10 a. m., May 8, for ditch No. 20, estimated to cost \$90,913; check 10 per cent. Officially advertised this issue of the Improvement Bulletin.

**\*Minn., Aitkin**—Additional bids will be called for on ditch 2; only two bids received; D. A. Toley & Co., 11c excavation; W. J. Gleason, 10½c.

**Minn., Erie**—Bids received until 2 p. m., May 12, for construction of three ditches: Deer Park township as follows: ditch 1, 23 rods, between sections 22 and 23; 8-foot wide at top, 4 feet bottom, 3 feet deep; ditch 2, 92 rods, between sections 18 and 19, and 17 and 19, 8-foot top, 4-foot bottom, 3-foot deep; district 3, 69 rods between sections 21 and 22, 8-foot wide, 4-foot bottom, 3 feet deep; all dirt to be placed on section road line, John Ramage, clerk, Hilda, Minn.

**Minn., Fulda**—Bids received until 2 p. m., May 12, for ditch No. 35, Murray county, main ditch, four laterals and five branches; cost \$11,142; check 5 per cent; W. A. Seeman, county auditor, Murray county.

**Minn., Glenwood**—Bids received until 1 p. m., May 4, by county auditor, for digging and repairing county ditch 6, estimated cost \$141. Ole Irgens, auditor, Polk county.

**Mont., Great Falls**—Bids will be in 2 p. m., April 27, on drain tile work, Huntley project, H. N. Savage, engineer, 31,400 feet.

**Neb., Osceola**—Bids received until 1 p. m., May 5, for ditch 3, proposed; F. M. Leigee, county clerk; J. N. Bridgeman, engineer.

#### CONTRACTS AWARDED.

**Iowa, Council Bluffs**—Contract for Fensler ditch awarded to Geo. Weatherly, Missouri Valley, 33,000 yards excavation, estimated cost \$5,000.

**Iowa, Estherville**—Contract awarded ditch 63, to Cement Products Co., \$48,428; open work same ditch, Skoog & Johnson, Stansfield, Minn., 7.18 cents yard ditch 76, Carl Peterson, Mason City, \$2,678; ditch 80 Lars Rogde, Fairmont, \$8,805; ditch 81 to Chas. Peterson, \$7,824; 82 Lars Rogde, \$4,080.

**Iowa, Muscatine**—Bids received for construction of pumping plant in No. 13 drainage district as follows: J. H. Seldon, Muscatine; building, H. L. Winslow Co., Chicago, steam; Power Equipment Co., Toledo, O., steam; Harney Bros., Peoria, Ill., steam; A. M. Lockett & Co., New Orleans, La., steam and electricity; Electric Construction & Machine Co., Rock Island, Ill., electricity; Hoppin & Rich, Peoria, Ill., electricity; McDonald Engineering Co., Chicago, steam; Muscatine Lighting Co., power.

**\*Iowa, Muscatine**—Contract let to Macdonald Engineering Co., Chicago, for power plant drainage district 13.

**Minn., Alberta**—Contract awarded for 1,770 feet 8-inch tile and 800 feet 10-inch tile, at \$703 to S. J. Garberick, Sheldon, Iowa; P. W. French, Morris, Minn., 20 cents a foot; Kircher Bros., St. Paul; Hartvig-Larson, Morris, \$704; Milton Jackson, Morris, \$710; John Geif, clerk.

**Minn., Alexandria**—Contract to National Drainage Co. at \$21,000 to clean Crooked Lake ditch, judicial 2.

**Mont., Billings**—Hugh McDonald has contract for 1,670-foot drain on the O'Donnell drain extension; E. W. Colton, engineer.

**Mont., Great Falls**—Contract awarded 1,055 feet 20-inch pipe and 1,105 feet 22-inch to American Spiral Pipe Works by United States reclamation, Flathead.

**Neb., Fremont**—E. L. Whitcomb has secured contract for digging 7 miles power canal, used to furnish water for the power plant of the Baker Construction Co., at Niobrara.

**Neb., North Platte**—Contract awarded to Lincoln Construction Co. for headgate, Platte Valley irrigation district.

## DRAINAGE AND IRRIGATION

*Notes arranged alphabetically by States.*

**Iowa, Carroll**—The engineer has reported favorably as to establishment of drain No. 14, petitioned for Louie Prill and others; also for drain No. 54, petitioned for by Wm. Rabb and others; drain No. 61, petitioned for by Anton Kanne and others; hearing May 8; Geo. A. Poepppe, county auditor.

**Iowa, Wapello**—Nine bids received on construction of pumping station, in drainage district No. 13, no action taken and awarding of contract deferred.

**Minn., Ada**—Hearing May 11 on judicial ditch 52; C. K. Semling, clerk of court.

**\*Minn., Bemidji**—As referee and supervising engineer for \$4,000,000 work on ditches started and asked for in Beltrami, Koochiching, Clearwater and Marshall counties, court has appointed O. L. Dent of Carlton, Minn.

**Minn., Blue Earth**—Hearing 1 p. m., May 9, on proposed judicial ditch 9, John E. Flynn, clerk of court.

**Minn., Fairmont**—Ditch viewers file report, judicial ditch No. 39, town of Galena, with clerk of court; estimated cost \$41,287.

**Minn., Fertile**—Petition filed for judicial ditch 52, preliminary hearing May 11, 2 p. m., Courthouse, city, of Ada, C. K. Semling, clerk, district court, Norman county.

**Minn., Mankato**—Roy H. Allison has been appointed engineer, judicial ditch 5, by district court.

**Minn., Mapleton**—Hearing May 9 on judicial ditch 9.

**Minn., Sherburne**—Hearing 10 a. m., May 11, on judicial ditch 44, E. R. Flygare, clerk, district court, Martin county, Minn.; 3 branches and laterals.

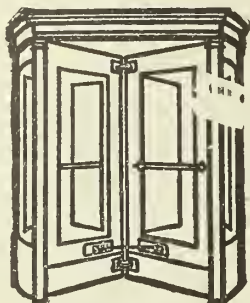
**Neb., Oakland**—E. L. Whitney, contractor, will start excavating at once on 7-mile ditch Niobrara Power canal.

**Neb., Tekamah**—The formation of a drainage district voted and carried C. H. W. Busse, Decatur, Albert Brunner, Ed. Latta of Tekamah and others directors.

**S. D., Cottonwood**—Ralph Vandercook has been surveying ditches near Dowling for new irrigation project of Rose & Davis, 300 acres on Cheyenne river.



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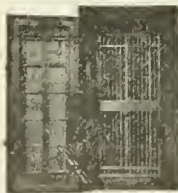
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SHATTUCK OFFICE FURNITURE. Designs and estimates sub-  
mitted on wood, marble and tile work.



**S. D., Deadwood**—Contract awarded to T. M. Reilly, railroad contractor, for ditch construction, Belle Fourche project, north canal extension, 6 miles from terminus near Newell; cost \$80,000; exclusive of laterals to cost \$40,000.

**Wis., Chilton**—The Wisconsin Drainage Co. have contract for ditch on farm of Adam Bolander, H. P. Johern, manager.

**Wis., New London**—Surveyors for Wolf River improvement Co. on \$7,000,000 project, Wolf and Fox river valleys, have nearly completed work; dam to create lake 20 miles long, and 6 miles wide in places, to be built at Pearsons; 27 feet high; to be completed in spring of 1916.

## HOTELS AND HOSPITALS

*Notes arranged alphabetically by States.*

### HOTELS AND HOSPITALS.

**Alta., Bassano**—A \$5,000 cottage hospital soon be erected here; address town Reeve.

**Iowa, Carroll**—Brick addition 98 feet deep, 3-story, 30-room, each with hot and cold water, to Burke hotel.

**Iowa, Davenport**—Interior of St. James hotel being remodeled.

**Iowa, Des Moines**—Home lodge No. 370 has made arrangements for remodeling of its building.

**Iowa, Oxford Junction**—Harry Carlton will rebuild hotel burned recently.

**Man., Brandon**—Hospital board decided to expend \$100,000 for extension to general hospital.

**Minn., Crookston**—Site purchased for tuberculosis sanitarium to be built by Polk and Norman counties; Dr. H. Holte, secretary commission.

**Minn., Dawson**—Plans in progress for surgical hospital being built by Drs. Stempstead and Johnson, city; E. H. Sund, architect, Andrus building, Minneapolis; 35x71, 2-story and basement.

**Minn., Ely**—Burntside Outing club will build hotel on Burntside lake, 6 miles west; 36x80; contract to Miettunen & Peterson; hardwood floors.

**Minn., Faribault**—Plans being considered by board of managers St. Lucas hospital for building deaconess' home near hospital; building work will begin when \$4,000 has been raised, and the amount is near that now.

**Minn., Rochester**—Excavation begun for Colonial hotel.

**Minn., Warroad**—Nothing will be done on proposed Hotel Lakewood for which J. W. Ross & Son, architect, Grand Forks, furnished plans some time ago, until about middle of June.

**Mont., Eureka**—J. A. R. Dumas planning addition to lodging house.

**Neb., Omaha**—Plans completed about May 6 for Deaf and Dumb institute; 60x171; 2-story and basement; \$60,000; J. H. Craddock, architect, 12 Continental building, city.

**N. D.,**—Funds being raised for local hospital; address the mayor.

**N. D., Berlin**—Hotel burned; loss \$4,500; insurance \$1,500; Mr. Heiszler, owner.

**Wis., Menomonie**—Plans for city hospital, prepared by Ellerbe, Round & Moore, Eau Claire, architects, before city council; bids called for soon; 35x60, Monomonic brick for exterior walls, thoroughly up-to-date; cost \$13,000 to \$14,000; address city clerk.

**Wis., Rhinelander**—Council urged to give bonus to C. A. Horn for a hotel.

**Wis., Taycheedah**—Site purchased for woman's reformatory; building operations started soon as contracts are let; address superintendent.

**Wis., Wausau**—New front being put in Hotel Bellis; part of interior will be reconstructed.

### BIDS WANTED.

**Minn., Anoka**—Bids on cottages 8 and 9, at insane hospital rejected; new bids April 27; cost \$55,000 each.

**Minn., Mankato**—Bids being taken by S. Dixon, for remodeling of the Saulpaugh hotel; H. C. Gerlach, architect, city.

**\*Minn., Phalen Park**—Bids received by state board of control, Capitol building, St. Paul, Minn., for additions to crippled children's hospital at Phalen Park. Check for 4 per cent. Officially advertised in this issue of the Improvement Bulletin.

**\*Minn., St. Peter**—Bids received by state board of control, State Capitol building, St. Paul, Minn., until 2 p. m., May 7, for fireproofing and other improvements on south wing of the state hospital at St. Peter. Check for 5 per cent. Officially advertised in this issue of the Improvement Bulletin.

**Wash., Hoquiam**—Bids soon asked for first unit of hospital building for general hospital, cost \$50,000; completed buildings, \$250,000.

**Wis., Winnebago**—Bids received by state board of control at Madison, until 10 a. m., May 5, for cottage at Northern hospital for insane; check 4 per cent.

### CONTRACTS AWARDED.

**Iowa, Oakdale**—Contract with J. W. Hopp Construction Co., Cedar Rapids, for additional building, at Oakdale tuberculosis sanatorium at \$39,000; 3-story, fireproof.

**Iowa, Eldora**—Contract with C. W. Ennis, Toledo, Iowa, for laundry building, at Industrial school for boys, at \$14,900; to include boiler and engine room and fire station.

**Mich., Marquette**—Contract for orphan asylum let to Herman Construction Co., Appleton, Wis.

**N. D., Fargo**—Contract to T. F. Powers & Co., city, for fireproof hotel costing \$75,000.

**Neb., Norfolk**—Contract with Orr & Reynolds for new general hospital.

**Wis., Delafield**—Contract with H. C. Graf, Baraboo, for three dormitories and house at tuberculosis sanitarium; \$20,500.

## THEATRES AND HALLS

*Notes arranged alphabetically by States.*

**Ida., Moscow**—E. J. Dahms, Skopane, submitted proposition for \$30,000 opera house.

**Ida., Sandpoint**—Plans for club building for Knights of Pythias about ready for bids; address secretary.

**Iowa, Aurelia**—Opera house and moving picture theater to be built by Stutz Bros.

**Iowa, Coin**—Odd Fellows with J. M. Pitman and Robert Arnold will erect building and lodge hall.

**Iowa, Sioux City**—Sioux City Amusement Co. will remodel building at 511 Nebraska st. into theater at cost of \$15,000.

**Iowa, Webster City**—Mason's considering building lodge home.

**Minn., Gary**—Plans in progress, V. J. Price & Co., architects, Duluth, for a moving picture theater for J. E. St. George, Gary, 25x100; cost \$3,500.

**Minn., Cloquet**—Work going ahead on theater building being erected by Frank L. Redfield; brick, steam heat, fireproof, 700 seats; D. F. Eselin, Minneapolis, manager.

**Minn., Lakewood**—Chas. Chartier, owner, will probably build his pavilion by day labor; 62x52; \$6,000.

**Minn., Le Sueur Center**—Grand theater burned; loss total, insured for \$3,000; S. A. Hogan, owner.

**Minn., Marshall**—Reported syndicate will build \$30,000 opera house here; address the mayor.

**Neb., Bloomfield**—Masonic lodge will build \$10,000 temple, brick, 2-story.

**Neb., Thedford**—By changes in plans, a lodge room will be built over auditorium, built by McMillan & Hines.

**N. D., Charbonneau**—Commercial club working for public hall; address secretary.

**Sask., Regina**—Canadian Film Exchange will build moving picture theater on Hamilton st., to be called the Monarch; preliminary plans made, 1,500 seats; same company building theater in Moose Jaw with 1,200 seats.

**S. D., Howard**—Work begun on Masonic temple, \$10,000.

**S. D., Huron**—Odd Fellows' making headway selling stock for lodge building; to cost \$30,000; address secretary.

**Wis., De Pere**—Work begun on remodeling Majestic theater

**Wis., Marshfield**—Effort being made to build \$20,000 community house; address Rev. Graeme Davis, vicar of St. Albans church.

**Wis., Rhinelander**—Campaign begun to raise \$25,000 for Y. M. C. A. building; address C. P. Crosby.

**Wis., Tomah**—Armory board will fit up motion picture theater in armory building.

### BIDS WANTED.

**Minn., Rochester**—Bids being received by J. E. Reed, owner, city, for remodeling a theater from a store; cost \$20,000.

**Mo., Albany**—Plans under way by Carl Boller, architect, Gayety theater building, Kansas City, for opera house for T. N. Rigney; 2-story, 50x93, steel, brick, stone, concrete, terra cotta, steam heat, electric fixtures, plumbing, marble, tile, 900 seats, inclined floor, art and plate glass, ventilators, scenery, etc.; superstructure awarded probably about last of month.

**Mont., Helena**—All bids for bleachers rejected, will re-advertise; board of state fair directors, owners.

**S. D., Watertown**—Bids received by Masonic Building association, J. W. Ferris, secretary, until May 2, for Masonic building; plans to be had for asking.

**Wis., Phillips**—The Odd Fellows, care W. H. Lippels, 8002



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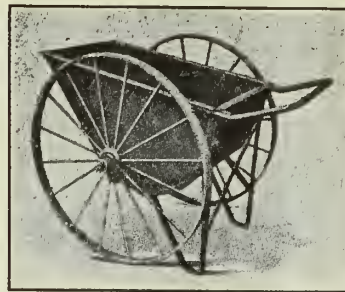
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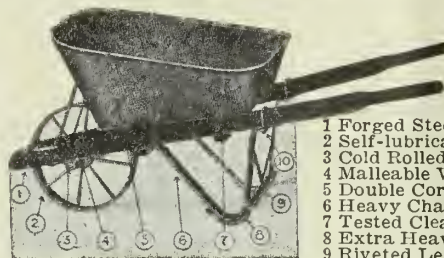


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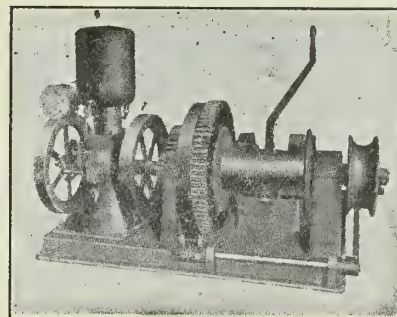
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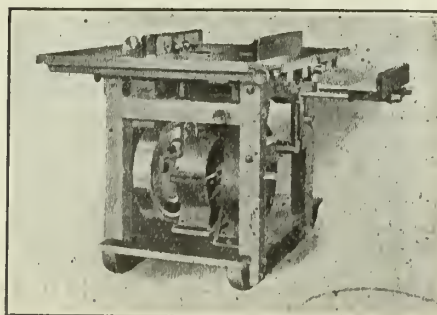
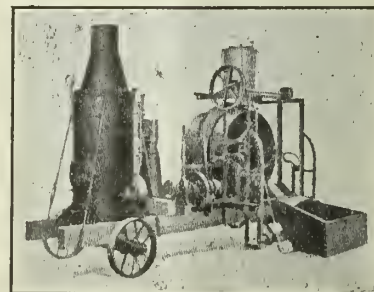
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advertise for bids for club house, 36x80, 2-story and basement, \$10,000.

### CONTRACTS AWARDED.

**Iowa, Northwood**—Contractor Weblemoe begun construction on J. M. Slosson's opera house; 50x84, stage in addition, 24x34, superstructure about complete; 400 chairs on main floor, 100 in gallery.

**Minn., Brainerd**—Contracts for improving the opera house have been let by F. E. Nemece, of St. Cloud, as follows: decorating to Frank H. McCaffrey; carpenter work to White Bros.; plumbing to L. W. Sherlund.

**Minn., Dassel**—Contract to H. E. Swanson for motion picture theater inclined floor, opera chairs, etc.; also electric light, daylight screen, ornamental entrance.

**Mont., Great Falls**—Contract for Masonic temple held by Two Miracle Concrete Corporation, and work has begun.

**Neb., Lincoln**—Contract with F. W. Rische & Son, city, for main building at state orthopedic hospital for \$36,995.

**Wis., New Holstein**—Contract with J. T. Hay, Milwaukee, for a club house for the Calumet club; cost \$6,000; 39x58, bungalow type.

## PUBLIC BUILDINGS

*Notes arranged alphabetically by States.*

**Alta., Edmonton**—Citizens voted for central police station and fire hall to cost \$287,000; John Chalmer, city commissioner.

**Iowa, Montezuma**—J. J. Lang, architect, St. Louis, Mo., directed to draft plans and specifications for county jail, after which bids will be asked for on construction; cost \$5,000; 2-story, fireproof, floors of reinforced concrete, steel girders, second story ceiling of concrete.

**Minn., Owatonna**—Site for armory selected and Chas. H. Stratton selected as architect.

**Mont., Kalispel**—Bonds for city hall carried; address city clerk.

**Mont., Miles City**—City voted in favor city hall; address city clerk.

**Neb., Sidney**—Movement started for city hall; address city clerk.

**N. D., Grand Forks**—Plans on file with Builders' & Traders' Exchange for city hall at Lakota, N. D.; J. A. Shannon, architect, Devils Lake; bids close May 2; Edwin F. Hughes, city auditor.

**N. D., Langdon**—All bids for proposed jail rejected, being fully \$5,000 higher than contemplated by board; J. K. Hamilton, auditor Hamilton, Cavalier county.

**Wis., Appleton**—Barns at fair grounds burned; loss \$2,500 to \$3,000; insurance \$950; Fox River Valley Fair association owner.

**Wis., Eau Claire**—Council instructed George Awsumb to prepare preliminary plans and estimates for city hall site and construction of such buildings as city may require; address city clerk.

### BIDS WANTED.

**Alta., Bassano**—Dominion government will soon call for bids on \$35,000 brick and stone postoffice building; Leo Dowler, architect, Calgary.

**Iowa, Muscatine**—Bids being taken by Paul V. Hyland, architect, 29 E. Madison st., Chicago, Ill., for structural iron and steel and plumbing for new hotel; other items later; Hull & Leyman, managers, Peoria, Ill.

**Minn., Fairmont**—Bids received by Capt. E. N. Chute, until April 27, for armory building, 60x120, 2-story, \$18,000.

**\*Minn., Minneapolis**—Bids received by state board of control, State Capitol building, St. Paul, until 2 p. m., May 11, for the ladies gymnasium building at the state university. Check for 4 per cent. Officially advertised in the Improvement Bulletin this week.

**Minn., St. Paul**—Bids received by F. A. Fogg, chairman, special committee on new library building, until 2 p. m., May 5, for metal book stacks; check 2 per cent.

**Mo., Richmond**—Bids received by E. A. Ringo, clerk, Ray county, until 9 a. m., May 4, for court house; check \$2,500; plans for \$25 deposit.

**Mont., Billings**—Bids received by city clerk, until May 1, for bath house, 30x70, 1-story; Link & Haire, architects.

**Wyo., Casper**—Bids received by O. Wenderoth, supervising architect, Washington, D. C., until 3 p. m., May 29, for U. S. postoffice complete, including mechanical equipment, interior lighting fixtures and approaches, 1-story, basement and mezzanine, 1st floor fireproof, stone and brick facing, tin roof.

## SCHOOLS

*Notes arranged alphabetically by States.*

**\*Iowa, Davenport**—Permit issued for \$20,000 addition to the Polk school, at 8th and Marquette; Wurdeman & Newman, architects, Columbus, Neb.

**Iowa, Keokuk**—Architect Ratcliffe has been chosen to draw plans for new schools and addition to Lincoln school; Woolley, Lutz and Tucker, building committee.

**Iowa, Keosauqua**—School building to be erected, \$14,000; board of education.

**Iowa, Storm Lake**—School district No. 3, in Diamond Lake township will erect school.

**Iowa, Wellsburg**—Architect Eberhart from Dubuque, submitted plans for church this spring by Rev. Heinrich's congregation; cost \$6,000.

**Minn., Barnesville**—E. F. Broomhall, architect, will prepare plans for \$50,000 high school.

**Minn., Kasota**—Addition to and heating, ventilating and lighting of high school building, according to plans and specifications submitted by Rose & Harris, engineers, Minneapolis, approved by state commissioner.

**Minn., Le Sueur Center**—Architect ready in three weeks with plans for new parochial school and sisters' residence, contract to be let and work started, cost \$20,000.

**Minn., Soudan**—Addition to school building, according to plans submitted by Bray & Nystrom, architects, Duluth, Minn., clerk, Hart Hewitt, Soudan, Minn.; approved by state commissioner.

**Minn., Ulen**—New grade school building, according to plans and specifications submitted by K. T. Snyder, Minneapolis; clerk, E. A. Westin, Ulen, Minn.; plans approved by state commissioner.

**Minn., Virginia**—Ten-room fireproof grade building, according to plans submitted by Bray & Nystrom, architects, Duluth, Minn., superintendent, P. P. Colgrove, Virginia; approved by state commissioner.

**Mont., Anaconda**—Three rural schools will be built in Blue Eyed Nellie district, Spring Gulch, and Southern Cross district; Mabel Sharp, superintendent.

**Mont., Missoula**—A \$20,000 dormitory is in prospect for the State University, Missoula; E. B. Craighead, president.

**\*Neb., Heartwell**—Contract awarded to C. G. Johnson, Lincoln, for new school, 44x60, 2-story.

**\*Neb., Loup City, (Deer Creek) item**—Deer Creek will build school.

**Neb., Omaha**—Rev. P. D. Harrington of St. Cecilia's may receive bids for addition to parochial school.

**N. D., Carbury**—Plans for new school by Architect Ed. White, Bottineau, N. D., special school district, Carbury, cost \$30,500.

**\*N. D., Loraine**—Bids are being advertised for a school.

**N. D., Maddock**—Plans completed by J. W. Ross & Son, architect, Grand Forks, for a 10-room brick school, plans placed on file this week at Grand Forks Builders' Exchange; plans also sent out for a 4-room frame school at Scobey, Mont., Sheridan county.

**\*N. D., Pettibone**—School will be built here, 35x64, 2-story basement, modern throughout.

**\*Wis., Oshkosh**—Plans and specifications completed for school in 11th ward, plumbing and heating system, bids will be advertised for soon.

**Wis., Grand Rapids**—Architect Gust Krasin has begun drawing plans for alterations in teachers' training school.

**Wis., Mountain**—Anderson & Williams, architects, Green Bay, Wis. prepared plans for a 2-story brick school; cost \$12,000; steel beams, common, hollow brick, composition roof, maple floors, yellow pine finish; bids taken by architect, soon.

### BIDS WANTED.

**Alta., Hanna**—Bids received until May 6, for erection of school; secretary of school board.

**Iowa, Turin**—Plans prepared by architect, L. E. Colby for an addition to school building, 24x55, modern heating plant, ventilating; cost about \$3,500; contract will be let May 9.

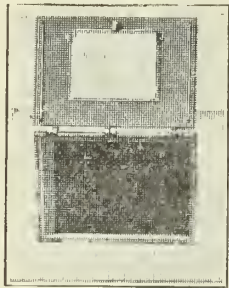
**Man., Sanford**—Plans prepared by E. D. Tuttle, architect, 709 McArthur building, for a school; frame, 63x32; cost \$8,000; steel beams, common brick, furnace heat, wood roof, common plaster, maple finish, fir trim; bids taken until May 1 by architect.

**Minn., St. Cloud**—All bids on high school Cathedral parish were rejected; new bids will be taken.

**Minn., Waconia**—Bids received until 2 p. m., May 4, for school, mason and carpenter work; check 5 per cent; Geo. Kraubauer, clerk.



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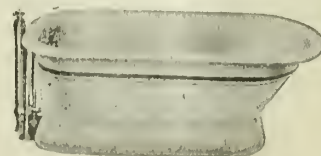


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**Mont., Helena**—A 2-story brick school will be erected, plans by G. H. Carsley, architect, stone foundation, local brick, local limestone; probably tar and gravel roof, d. s. glass, patent plaster, fan system heat, maple floors, fir or oak finish, blackboards, electric bells and lights, fire escapes, fireproofing, iron beams, metal lath, plumbing; cost \$50,000; plans subject to sale of bonds; bids taken in near future.

**Mont., Livingston**—Bids received until April 30, 7:30 p. m., for excavating and concrete work, of new Central school; plans with C. H. Turk, on or after April 23; check \$500; E. M. Sybert, clerk school board.

**\*Mont., Miles City**—Bids received until April 28, 7 p. m., for a school on Powder River district, No. 16; plans at office of superintendent, H. L. Whittaker, clerk, school board.

**N. D., Ardock**—Plans for 4-room school are on file at Builders' Exchange, Grand Forks, N. D.; brick; bids received until May 4, 1914; J. W. Ross & Sons, architects, Grand Forks, N. D.

**N. D., Bathgate**—Plans on file for a 6-room brick school house, at Builders' Exchange, Grand Forks, N. D.; bids received until May 18; J. W. Ross & Son, architects, Grand Forks.

**\*N. D., Benson**—Bids received by I. J. Hauge, clerk, until 1 p. m., May 25, for a 10-room, brick school house in Viking district No. 9; heating, ventilating and plumbing separate. Check for \$100. J. W. Ross & Son, architects. Officially advertised in this issue of the Improvement Bulletin.

**N. D., Brocket**—Plans on file for a 1-story and basement frame school building, at Grand Forks Builders' Exchange, May 5, 1914; W. J. Edwards, architect.

**N. D., Dahlen**—Plans on file at Builders' Exchange, Grand Forks, N. D., for a 4-room brick school; J. W. Ross & Son, architect, Grand Forks; bids received until May 11.

**N. D., Grand Forks**—Bids called for consolidated school; plans on file at Builders' Exchange, Grand Forks, N. D., office of Thos. Gray, district clerk, Brocket, N. D., Secretary Walsch, county recorder, Grafton; for details, W. J. Edwards, architect.

**N. D., Harvey**—Bids received until 2 p. m., May 2, for installing a furnace and ventilating system in school district 19, Wells county, N. D.; John Fryer, clerk.

**N. D., New Rockford**—Bids received until April 30, for a 2-room frame school with basement; SW. corner, section 15, township 148, Eddy county; plans at office of Welles Lumber Co., New Rockford, N. D.; First St. Bank, Grace City, N. D.; Bovey-Shute Lumber Co., Brantford, N. D.; Builders' Exchange, Fargo, N. D. Check for \$100. C. W. Larkin, president; S. O. Severson, clerk, Brantford, N. D.

**Sask., Afsask**—Bids received until May 1, for a brick school, J. F. Spicer, secretary-treasurer.

**S. D., Sioux Falls**—Official advertisement in the Bulletin this week for bids on fireproof, Bishop Hare memorial school, received until 10 a. m., May 21, by Bishop Biller, Sioux Falls; plans at Builders' Exchange, Minneapolis; copies of Bishop Biller. Robert Perkins, architect; bids include heat, ventilation and plumbing and electric. Check for 3 per cent.

**Wis., Rockland**—Bids received until 12 m., May 1, for 1-room school, brick, plans with W. O. Jones; check 5 per cent; W. O. Jones, S. R. Jones and Albert Onstin, building committee.

**Wis., Watertown**—Bids received until 8 p. m., May 6, for painting and calcimining at Webster school, separate bids for outside work, for further information call or address, A. A. Frattinger, chairman committee; C. R. Feld, clerk school board.

**Wis., Watertown**—Bids received until April 21 for a school for St. Mark's German Lutheran congregation; J. F. Dreger, architect; plans at Wm. Gorder's office, also with architect, City National Bank building, Oshkosh; separate bids on fire escape later; Ferdinand Krueger, chairman.

#### CONTRACTS AWARDED.

**\*Iowa, Council Bluffs**—Contract awarded to Geo. F. Hughes, for addition to 32d st. school, \$14,269; plumbing and heating let to J. H. Rogers, at \$2,285; F. E. Cox, architect.

**Iowa, Davenport**—Contract awarded to E. P. Stranberg Construction Co., Chicago, Ill., for \$40,000 gymnasium at the Dubuque college.

**Iowa, Dubuque**—Contract awarded to the Epstranberg Construction Co., Chicago, general contract; plumbing to W. S. Molo Co., Dubuque; E. T. Smith, electrical work on the new \$60,000 gymnasium of the Dubuque German college; work to start soon.

**\*Iowa, Iowa City**—Contract awarded to J. H. Hunzinger, contractor, for the Lone Tree high school; Mr. Hunzinger would like figures on common brick, hollow tile, reinforcing and structural steel, cement, lime, lumber and Bedford stone.

**Iowa, Rowan**—Payette Construction Co. got contract, Sioux City, for consolidated school, stone and brick, 2-story and basement.

**Iowa, Sheffield**—Contract awarded to L. H. Hanson, Des Moines at \$27,989, for school; Mason City Plumbing & Heating Co. contract for heating; J. W. Daley, Mason City, Iowa, plumbing, heating, 3,247, plumbing 1,744.

**Minn., Ivanhoe**—Contract awarded to Standard Construction Co., Minneapolis, at \$10,750, for general contract for school; plumbing, to Pete Brown, Tyler, at \$790; also contract for heating and ventilating, at \$2,409; total cost \$13,949.

**\*Minn., Pine City**—Contract awarded to G. W. Carlson, Cambridge, for high school at \$18,354; heating, Hasey Heating Co., Minneapolis at \$3,200; plumbing, Smith Hardware Co., Pine City, at \$1,800; work to commence soon.

**N. D., Belfield**—Contract awarded to Meinecke Building Co., Marmarth, N. D., addition to school, at \$17,037; heating to H. G. Dudgeon, Glen Ullin, N. D., at \$3,875; wiring, to Geo. S. Crysler, Beach, N. D., at \$292; Haxy & Gillespie, architects.

**Ont., Port Arthur**—Contract awarded to Seaman & Penniman for \$37,068, for addition to north ward school, contract for addition to south ward school, let to R. Hamer, for \$36,650.

**Wis. Mauston**—Contract for high school let to James Storm-out & Son, La Crosse, for \$50,000; contract for steam heat to the Thomas Heating Co., Racine, Wis., at \$7,627; Parkin-son & Dockendorf, architects, La Crosse.

**\*Wis., Superior**—Contract for concrete work on normal building, awarded to A. Hartman, Milwaukee, concrete contractor.

## MILLS AND FACTORIES

*Notes arranged alphabetically by States.*

**N. D., Fairmont**—C. M. Peterson of Fairmont Produce Co. and R. W. Stegner of Canada, contemplate modern creamery.

**Sask., Regina**—A new factory, Western Tire & Rubber Co., Ltd., cost \$175,000; J. A. Westman and E. D. McCallum are the directors of company; 2-story, 300x70.

**Wis., Port Washington**—Fire destroyed the warehouse and barns of the Wisconsin Chair Co.; loss \$45,000; partly insured.

**Wis., Racine**—The Racine File Co. will build a factory, modern, Chas. Myron and Edward McAvoy, owners, brick, 2-story; cost about \$12,000; plans made and contracts awarded in a few days.

**Wis., Wausau**—The Gilbert Shoe Co. will enlarge their plant.

**Wis., West Salem**—Fire destroyed the Steenson flour and shall ice Co., announces that new plant will be built; concrete; cost about \$25,000; contract not let.

#### BIDS WANTED.

**\*Minn., Silver Lake**—Bids received by John Kasper, secretary, until 1 p. m., May 6, for a creamery building. Check for 5 per cent. Officially advertised in this issue of the Improvement Bulletin.

#### CONTRACTS AWARDED.

**Minn., Willmar**—Contract awarded to Jens Olson, for plant of the Willmar Bottling Works; fireproof, 25x60, full basement; 2-story; cost \$7,200.

**Neb., Blair**—Contract let to Fee & Kobler, St. Louis, Mo., for canning factory here, 185x100, hard brick and hollow tile modern.

**Wis., River Falls**—H. P. Nelson & Son, contractors, Red Wing, Minn., have contract for co-operative creamery and laundry here.

## ELECTRICAL

*Notes arranged alphabetically by States.*

**Mont., Fort Benton**—Pleasant Valley Farmers' Telephone Co. organized by R. D. Moede, W. O. Simmons and others.

**Mont., Hardin**—The Big Horn Canyon Irrigation & Power Co. has completed surveys for an electric railway, 68 miles long, and is now surveying for the dam site and reservoir. The project includes construction of a hydro-electric plant on the Big Horn river to develop 25,000 h. p. at a minimum flow, construction of an electric road 68 miles long; irrigation by gravity of 100,000 acres and by electricity generated at the dam of 35,000 acres; Edw. Lawlor, secretary.

**N. D., Granville**—Andrew Thrane and John Kvame of this place and John H. Muus of Vleva, have incorporated the Farmers' Telephone Co., capital 15,000.

**N. D., Pingree**—The James River Valley Telephone Co. has been granted a franchise for extension of its lines.





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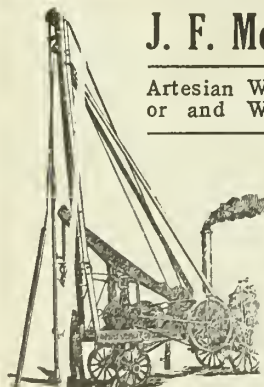
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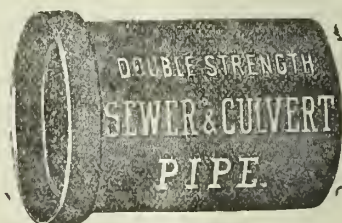
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**Ore., Falls City**—Within 6 months the Falls City Electric Light & Power Co. will purchase a generator, transformer, arc and incandescent lamps; H. C. Brown, vice president and manager.

**S. D., Colome**—Danton-Colome Telephone Co. organized and will connect with Nebraska Telephone Co. at Colome; H. F. Mettler, president.

**S. D., Dallas**—The South East Telephone Co. incorporated, capital \$10,000; Ernest Prinz, president; Buffalo Creek Telephone Co. organized, Hartley Brennann, president.

**Wis., New Richmond**—River Falls Power Co. will build another electric power transmission plant and a 90-foot reinforced concrete dam across the Kinnickinnic a mile above the present power plant at Clifton.

**Wis., Portage**—Portage Telephone Co. will erect a new building and install new apparatus at a cost of \$15,500; F. H. Runkel, manager.

**Wis., Washburn**—Bell Telephone Co. bought the local telephone exchange for Home Telephone Co., also the one at Mellen and the Ashland exchange of this company has been taken over by Ashland Telephone Co., this gives these cities only one telephone company; all lines will be rebuilt.

**Wyo., Lander**—A hydro-electric plant to cost \$200,000 is being erected on the Popo river about 10 miles from here.

#### BIDS WANTED.

**Man., Winnipeg**—Bids received by city light and power department April 30, for furnishing and erecting two 3-phase synchronous condensers.

**\*Minn., Comfrey**—Bids received by G. W. Schaffer, village clerk, until 7 p. m., May 5, for a complete electric light plant; W. C. Buck, consulting engineer, Curtis Court, Minneapolis; check 10 per cent; officially advertised this issue the Improvement Bulletin.

**\*Minn., Hastings**—Bids received by state board control, capitol building, St. Paul, Minn., until 2 p. m., April 28, for telephone, watchman's signal, fire alarm and clock system at insane asylum; Chas. L. Pillsbury Co., engineers, Metropolitan Life building, Minneapolis; check 5 per cent. Officially advertised this issue the Improvement Bulletin.

**Mont., Helena**—Bids received by D. J. McConnell, city clerk, 8 p. m., May 4, for installing an ornamental lighting system, 391 posts on west side of city; Wm. Jordon, Jr., city engineer, Room 14, Kohrs block; check for 10 per cent.

**S. D., Elk Point**—Bids received by A. Smythe, city auditor, 2:30 p. m., April 30, for construction of an electric light system as follows: brick building, furnishing and erecting 2, 125 h. p. anthracite gas producers, 1 125 h. p. gas engine and 1, 75 h. p. gas engine direct connected respectively to a 75 K. V. A. and a 50 K. V. A.; alternator, piping, switchboard, etc., furnishing and erecting poles, wires, street lamps and transformers, etc.; bids received on complete parts only; Earl D. Jackson, St. Paul, consulting engineer; check for 5 per cent.

#### CONTRACTS AWARDED.

**Iowa, Northwood**—Contract awarded for telephone building to E. D. C. Wright, Charles City, Alban & Lockhart, architects.

**Wis., Boscobel**—This city has signed a contract with Lancaster Power Co. for electricity.

## CHURCHES

*Notes arranged alphabetically by States.*

#### BIDS WANTED.

**Iowa, Boyden**—Bids received until April 28, noon, for brick, cement and plaster work on the Dutch reform church; plans at Farmers' Lumber yard; W. Vanderwell.

**\*Minn., Crookston**—Bids received by R. C. Bailey, chairman building committee, until 3 p. m., May 5, for four separate bids for a church building, for 1st Presbyterian church; general contract, heating and ventilating, plumbing, electric wiring; Bert D. Keck, architect; check for 5 per cent. Officially advertised this issue of the Improvement Bulletin.

**Iowa, Northwood**—Bids received until 4 p. m., May 8, for a public school; plans by Alban & Hausler, architects, St. Paul, Minn., separate bids received for plumbing, heating and electric wiring; check for 3 per cent, on general work; check \$300 on plumbing, 5 per cent on electric wiring; M. H. Kepler, president school board; E. H. Miller, secretary; 71x114, 2-story and basement, hollow tile, brick, hard brick facing, cement floors, with maple covering, etc.

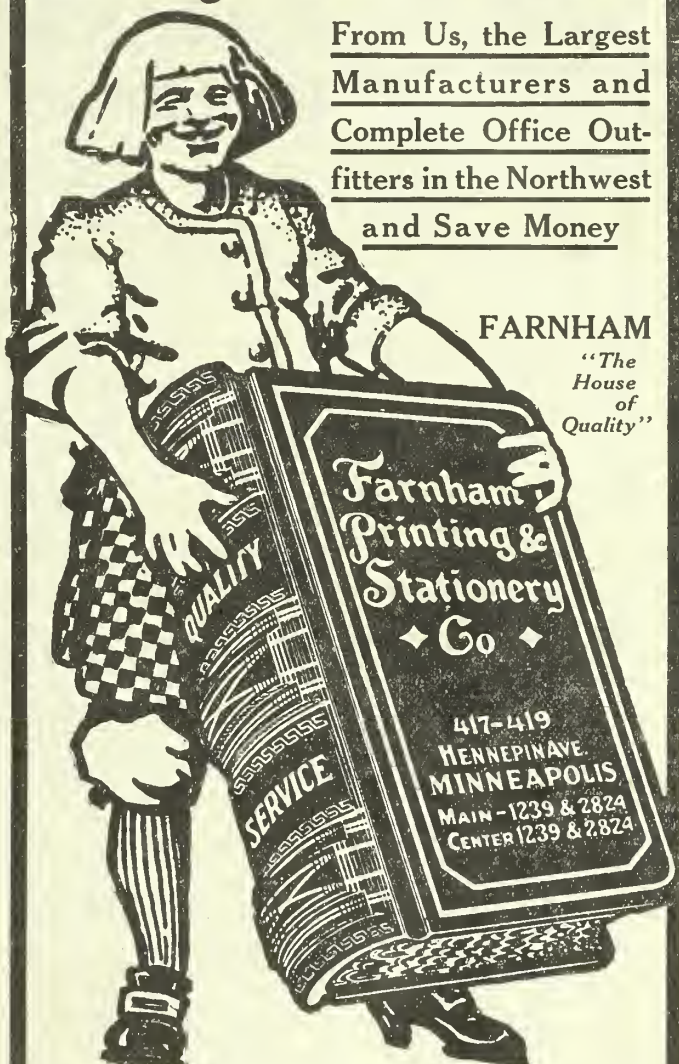
**Minn., Crookston**—Bids received until May 5, 3 p. m., for construction and finishing of church for the First Presbyterian association; separate bids for general contract, heating and plumbing, electric wiring; plans by architect B. D. Keck, Crookston, Rev. R. C. Bailey, D. D., chairman; C. C. Strander, secretary building committee; Builders' Exchange, 17 S. 6th st., Minneapolis; check for 5 per cent.

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\***Minn., Fairfax**—Bids received by E. F. Sell, chairman building committee, until 2:30 p. m., May 4, for rebuilding Methodist church and addition; C. A. Boehme, architect, Kasota block, Minneapolis. Check for \$500. Officially advertised in this issue of the Improvement Bulletin.

\***Minn., Okabena**—Bids received until May 20, for erection of German Lutheran church; plans at First State Bank, Okabena, Ed. Milbrath, secretary.

\***Minn., Plato**—Bids received by F. M. Graupmann, chairman building committee until 11 a. m., May 7, for a brick church for the Evangelical St. Paul's congregation; Albert Schippel, architect, Mankato; check 10 per cent. Officially advertised this issue the Improvement Bulletin.

\***Minn., Prakers Prairie**—Bids received until 8 p. m., April 28, for a church for Lutheran Congregation; plans on file at Parkers' Prairie State Bank; check for 3 per cent; Fred Proehl, treasurer.

\***Neb., Arnold**—Bids received until noon, May 10, for M. E. church.

\***S. D., Watertown**—Bids received by J. W. Dougherty, chairman, until noon, May 18, for Methodist church; Harry W. Jones, architect, Lumber Exchange, Minneapolis. Officially advertised in this issue of the Improvement Bulletin. Plans on deposit of \$10.

\***D. C., Washington**—Bids received by Cato Sells, commissioner of Indian Affairs, Washington, D. C., until 2 p. m., May 21, for three hospitals; officially advertised this issue the Improvement Bulletin.

#### CONTRACTS AWARDED.

**Iowa, Ft. Dodge**—Contract for brick used in M. E. church building awarded to the Sioux City Brick & Tile Co.

\***Iowa, Greene**—Contract awarded to Gates Lumber Co., Greene, for Evangelical Lutheran church building; other bids were: Coen & Sonway, Davenport, Iowa; A. W. Johnson, Allison, Iowa; A. M. Willey & Co., Algona, Iowa; Paul Braun, Dubuque, Iowa; Otto Braun, Dubuque; E. B. C. Wright, Charles City, Iowa; Cove, Sproul & Co., Greene, Iowa; M. H. Vail, architect, Dixon, Ill.

**Iowa, St. Lucas**—Contract awarded to Anton Zwack of Dubuque, Iowa, for new Roman Catholic church here, at \$33,800, to be completed by Dec. 20.

**N. D., Jamestown**—Contract for plastering let to Contractor Mullen, St. Paul, Minn.; electric wiring to Western Electric Co. for Catholic church, plumbing contract not let.

**Sask., Prince Albert**—Contract awarded to Bonas Bros., city, for the construction of Roman Catholic cathedral; cost \$100,000.

\***Wis., Appleton**—John Coppes was awarded contract for Holy Cross church, at \$34,898; does not include heating, plumbing or wiring, 56x147, clock tower, brick, Bedford stone trim, excavation started.

**Wis., Kaukauna**—Contract for the Holy Cross church, awarded to Jno. Coppes, city, at \$31,898; other bids received were: J. E. Utke, Marinette, Wis., \$46,150; Imel Construction Co., Fond du Lac, \$39,874; Hutter Construction Co., Fond du Lac, \$37,944; Appleton Construction Co., Appleton, \$37,596; Hoffman Construction Co., Appleton, \$36,137; Hegner Construction Co., Appleton, \$35,522; Dennesson & Van Kalseter, Green Bay, \$35,400; J. A. Gienesse, Green Bay, \$35,306; Anthony Jeleniewski, Green Bay, \$31,023; Brielmeyer & Sons, architects, Milwaukee, Wis., heating, lighting and plumbing not included.

## GARAGES AND BARNES

*Notes arranged alphabetically by States.*

**Minn., Henderson**—Peter Henter of Minneapolis will erect a modern garage here.

**Minn., Long Prairie**—The Krause Automobile Co. will build a large modern garage, 66x140, first floor, reinforced concrete, chipped marble finish, fireproof roof, 1-story, plate glass, modern throughout.

**Minn., Mantorville**—J. L. Curtis is building large modern barn.

**Mont., Miles City**—Fire destroyed the Atchison livery barns. Loss about \$10,000; partly insured.

**Neb., Cortland**—Arthur Goodban will build modern garage 50x100, cement block; A. T. Cooper & Sons and J. S. Bonebright have contract.

**Neb., Richland**—W. S. Brockelsby will build a fireproof garage.

**Neb., Ogalalla**—Jay Hollingsworth will erect a 2-story, brick addition to his garage.

**N. D., Hazelton**—L. C. Malchert is erecting a large modern barn.

**N. D., Rolette**—Christianson & Nelson will erect a garage, modern.

**N. D., Williston**—Stice Bros. garage burned; loss \$10,000.  
**N. D., Ypsilanti**—Gottlieb Schultz is erecting large barn.  
**S. D., Beresford**—Allen Johnson, garage for Denis Fitzgerald.

**Wis., Eau Claire**—Fire destroyed large barn and other buildings of Reinhart Wimmer; loss, \$4,000; insured.

**Wis., Fenimore**—Nels S. Nelson has contract to build a concrete barn for Martin Wellsington, near Boscobel; 80x36.

**Wis., Hudson**—F. O. Crary will build modern garage.

**Wis., Menomonee**—Fire destroyed barn of Reinhart Wimmer; loss \$4,000; no insurance.

## RESIDENCES

*Notes arranged alphabetically by States.*

**Iowa**—Following will build houses. Little Cedar—Mr. Michels. Ogden—Wrenschler & Dohms, have contract for Chas.

**Iowa**—Following will build residences: Centerville—Elmer Sharp. Le Mars—H. H. Ling, modern. Avoca—Wm. Niemann, modern bungalow. John Sievers, modern bungalow. Eldora—Poole & Albery have contract for \$5,000 house for Frank Smith.

**Iowa**—Following will build residences. Titonka—Klugkiss & Sietsema, 2-story, modern. Tama—B. C. Berry, contract to James Richards. Belmont—L. H. Gowdy, modern.

**Minnesota**—Following will build residences: Waseca—C. H. Johnson. Renville—Yock Bros., modern. Wabasha—W. H. Anderson, modern. Parkers Prairie—Edward Kientz, cement blocks; Chas. Larson, modern. Kerkhoven—A. Westerdahl has let contract to Lewis Larson, modern. John Daniel, modern. Winona—G. R. Little, Kasson, taking figures for modern, architects Van Deusen & Stevens, Morgan building, Winona; frame, shingle roof, cost \$5,000. Winona—L. E. Speitz, frame, stone foundation, shingle roof; cost \$4,000; private plans; owner will take figures soon.

**Minnesota**—Following will build residences: Alden—A. P. Hansen has contract for modern house for Frank Korn. Adams—John Halbach. Adams—John Steichen, modern. Long Prairie—Max Green, modern. Farwell—Chas. Dahlen, modern. New Ulm—Herman Kopp, modern. St. Cloud—Jos. Olmschenk. Mankato—Peter Lloyd, two modern. Mankato—C. K. Mayer, modern. Mankato—Plans drawn for a modern priest's house by Henry C. Gerlach, architect.

**Minnesota**—Following will build new residences: Virginia—Davis J. Johnson, modern, \$3,500. Mankato—W. D. Willard, seven dwellings, \$2,000. Shakopee—M. H. Oliver, bungalow type, frame. Slayton—Enoch Anderson, modern. Stewartville—E. J. Dodge. Fairmont—Gus Hoffman, modern. Wykoff—James Stanton, modern. Halstad—C. L. Sulerud, modern, \$6,000; H. Pace, contractor. district 152 at \$994.

**Nebraska**—Following will build residences. Fremont—C. P. Dalgard has let contract for 6-room. Fremont—Chas. Potter, modern. Fremont—Michael Falo, 7-room bungalow. Homer—Jeff Rockwell, modern. Shelton—C. B. Snyder, modern. Stanton—Dr. Peters, modern. Scottsbluff, Geo. Birney modern, architect Peterson drawing plans. Waterloo—A. H. Campbell, two cottages.

**Nebraska**—Following will build residences: Fremont—Mr. Roessler. Fremont—C. P. Dalgard—Chas. Porter, modern. Michael Falo, bungalow. Glenville—Mr. Benhoff. Homer Jeff, of Dakota City, modern. Lincoln—August Gunnerson, \$2,200; J. A. McGraw, \$1,500; Beulah L. Foster, \$5,000; A. L. Hoover, \$3,000. Omaha—Bids taken for N. P. Burger's apartment house; Architect Henninger. Omaha—Joe Martenec, \$1,800; F. F. Osborn, \$2,500; C. B. Moser, brick apartment, \$15,000; M. apartment, \$15,000; M. Paulson, 100M cmfwy cmf c Paulson, \$2,200; Clyde Moore, \$2,500; Chas. W. Appleton, \$1,500; Geo. Reif, \$1,500; G. A. Pearson, \$2,500; Remi Bogard, \$4,000; Jake Slosburg Jr., \$7,000.

**North Dakota**—Hebron, John Hietzen will build, contract to Peter Wagner.

**South Dakota**—Flandreau, P. F. Levins, modern, house; \$5,000.

**South Dakota**—Following will build houses: De Smet—Dr. B. A. Dyar, modern. Tyndall—H. L. Taplett, modern.

**Wisconsin**—Following will build residences: Marshfield—Philip J. Schaefer, plans completed, modern, brick facing. Black River Falls—H. J. Ormsby, modern bungalow. Luck—Fremont Tweedy, modern. Frederic—Contract let to Frederic Construction Co. for bungalow for Wm. Franec.

#### CONTRACTS AWARDED.

**N. D., New Rockford**—Jacob Adams has let contract for \$4,000 bungalow, hot water heat, running water, sewerage, electric lights, etc., to Contractor Culp.



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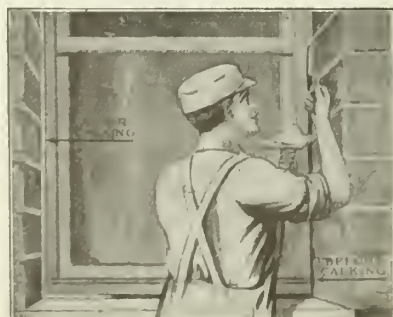
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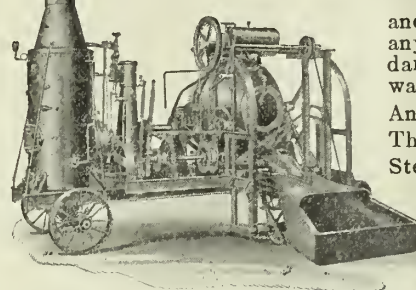
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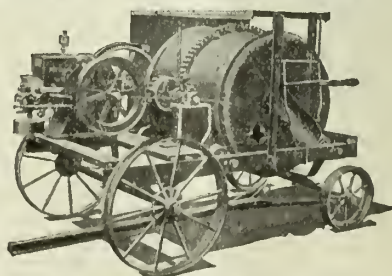
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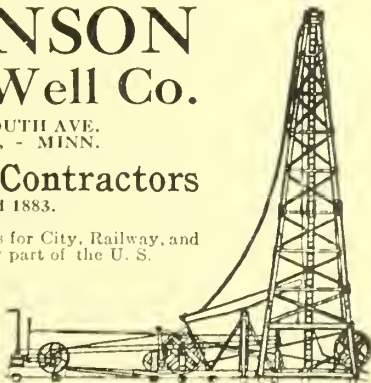
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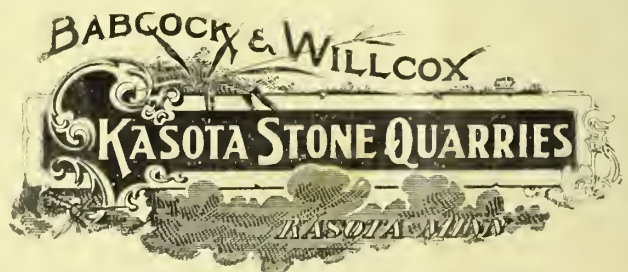
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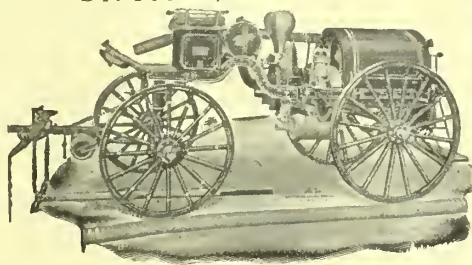
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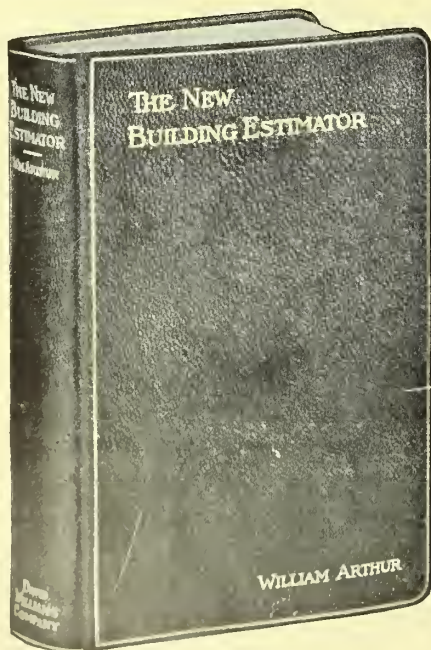
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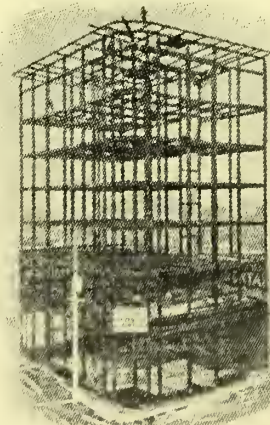
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## Clinton Bridge Works

CLINTON - IOWA





# The Improvement Bulletin

A Weekly Journal of Construction, Engineering and Architectural News Founded by Harold C. Chapin

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Number 22

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### OFFICES.

Minneapolis, Minn.—912 Lumber Exchange.  
Tel. N. W. Main 3902.

St. Paul, Minn.—404 Scandinavian-American Bank Building. Tel. Cedar 1683.

### CORRESPONDENCE.

You are invited to send news and comments along lines of your business to Minneapolis office not later than Thursday.

### SUBSCRIPTIONS.

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### ADVERTISEMENTS.

For less than three pages in a year, \$25.00 a page. One page weekly, 52 pages a year, \$22.50 per page. Half page weekly, \$52.65 per month. Quarter page weekly, \$26.34 per month. Eighth page weekly, \$13.65 per month. New advertisements received up to Thursday noon the week of issue.

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### ARCHITECTURAL MODELING.

K. F. Lott & Co., Mpls. and St. Paul, Minn.

### ARCHITECTS' SUPPLIES.

Minneapolis Blue Ptg. Co., Mpls., Minn.  
Rogers & Co., Minneapolis, Minn.

### ASBESTOS AND MAGNESIA PRODUCTS.

H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
Krieger-Jamar Co., Duluth, Minn.

### ARTESIAN WELLS.

J. F. McCarthy, Minneapolis, Minn.  
S. Swenson Artesian Well Co., Minneapolis, Minn.

### BANKS.

Northwestern National Bk., Mpls., Minn.

### BANK AND STORE FIXTURES.

Flour City Ornamental Iron Works, Minneapolis, Minn.  
A. Moorman & Co., St. Paul, Minn.  
Northwestern Fixture & Cabinet Co., Minneapolis, Minn.

### BOILERS.

Andrews Heating Co., Minneapolis, Minn.  
Associate Mfrs. Supply Co., Mpls., Minn.  
Central Supply Co., Minneapolis, Minn.  
Crane & Ordway Co., St. Paul, Minn.  
Hasey Heating Co., Minneapolis, Minn.  
McDonnell Boiler & Iron Works, Des Moines, Iowa

### BONDS—SURETY.

Hood & Penney Co., Minneapolis, Minn.  
Wm. B. Joyce & Co., Mpls.-St. Paul, Minn.  
Fidelity & Deposit Co., Mpls.-St. Paul, Minn.

### BRASS GOODS.

Central Supply Co., Minneapolis, Minn.  
National Mfg. & Supply Co., Mpls., Minn.

### BRICK AND TILE.

American Brick & Tile Co., Mason City, Ia.  
Arnegard, Ole., Hillsboro, N. D.  
Barber Asphalt Paving Co., Des Moines, Ia.  
Belt Line Brick Co., Minneapolis, Minn.  
Boukind-Carlson Brick Co., Crookston, Minn.  
Chaska Brick & Tile Co., St. Paul, Minn.  
Crookston Brk. & Tile Co., Crookston, Minn.  
Dickinson Brick Co., Dickinson, N. D.  
Flint Brick Co., Des Moines, Ia.  
Hebron Fire & Pressed Brick Co., Hebron, N. D.  
Hydraulic Press Brk. Co., Minneapolis, Minn.  
Johnson, Jackson & Corning Co., Minneapolis and St. Paul, Minn.  
Mason City Brick & Tile Co., Mason City, Ia.  
National Fireproofing Co., Minneapolis, Minn., and Chicago, Ill.  
Northwestern Fireproofing Co., Mpls., Minn.  
A. C. Ochs Brick & Tile Co., Springfield, Minn.  
Red River Valley Brick Corporation, Grand Forks, N. D.  
Shakopee Cement Lime Co., St. Paul, Minn.  
Sioux City Brick & Tile Works, Sioux City, Ia.  
Standard Salt & Cement Co., Duluth, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.  
Twin City Brick Co., St. Paul-Mpls., Minn.

### BRIDGES.

American Bridge Co., Minneapolis, Minn.  
Clinton Bridge Works, Clinton, Ia.  
Corrugated Bar Co., St. Paul, Minn.  
Crown Iron Works Co., Minneapolis  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
N. W. Concrete Steel Co., Minneapolis, Minn.  
St. Paul Foundry Co., St. Paul, Minn.

### BUILDING MATERIAL.

Barber Asphalt Paving Co., Des Moines, Ia.  
Baxter Sash & Door Co., Duluth, Minn.  
N. B. Cagley & Co., Minneapolis, Minn.  
Carr-Cullen Co., Minneapolis, Minn.  
Dunlop-Moore Co., Duluth, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co., Mpls. and St. Paul, Minn.  
Landers-Morrison-Christensen Co., Minneapolis, Minn.  
Osgood & Blodgett Mfg. Co., St. Paul, Minn.  
Shakopee Cement Lime Co., St. Paul, Minn.  
The Northwestern Lime Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

### BUILDERS' SPECIALTIES.

Dunlop, Moore Co., Duluth, Minn.  
Palme & Nixon Co., Duluth, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Thomson-Williams Co., Duluth, Minn.  
Waterloo Register Co., Waterloo, Ia.

### CALKING PASTE.

Minnesota Weatherproof Calking & Glazing Co., Minneapolis, Minn.

## The Buyer's Guide and Classified Directory of Advertisers

### CEMENT.

Atlas Portland Cement Co., New York, N. Y., Chicago, Ill., and Minneapolis, Minn.  
Carney's Cement Works, Mankato, Minn.  
Fowler & Pay, Mpls. and Mankato, Minn.  
Landers-Morrison-Christensen Co., Minneapolis, Minn.  
N. W. Lime Co., Mpls. and St. Paul, Minn.  
Shakopee Cement Lime Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Speakes Lime & Cement Co., Superior, Wis.  
St. Paul Lime & Cement Co., St. Paul, Minn.

### CELLS, STEEL.

Avery Steel & Iron Co., Minneapolis, Minn.  
Crown Iron Works Co., Minneapolis, Minn.  
Diebold Safe & Lock Co., St. Paul, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.

### CEILINGS, STEEL.

Canton Steel Ceiling Co., Minneapolis, Minn.  
R. S. Wishart & Co., Minneapolis, Minn.

### CHAIRS, OPERA.

Northern Theatre Supply Co., Mpls., Minn.

### COAL CHUTES.

Crown Iron Works Co., Minneapolis  
Enterprise Iron Works, Albert Lea, Minn.  
Gardner Hardware Co., Minneapolis, Minn.  
Majestic Furnace & Fdy. Co., Mpls., Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Waterloo Register Co., Waterloo, Ia.

### COLD STORAGE PLANTS.

Chas. A. Berger, Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

### COLUMN CLAMPS.

O. F. Symons & Co., Minneapolis, Minn.

### CONCRETE CONSTRUCTION.

Corrugated Bar Co., St. Paul, Minn.  
C. A. P. Turner, Minneapolis, Minn.

### CONCRETE MACHINERY.

Atlas Engineering Co., Milwaukee, Wis.  
Nels Erickson, Minneapolis, Minn.  
Eureka Machine Co., Lansing, Mich.  
G. E. Ingersoll & Co., St. Paul, Minn.  
Koehring Machine Co., Minneapolis, Minn., and Milwaukee, Wis.  
Standard Salt & Cement Co., Duluth, Minn.  
Jaeger Machine Co., Columbus, Ohio  
Raymer Hardware Co., St. Paul, Minn.  
Lansing Co., Lansing, Mich.  
Northwestern Steel & Iron Wks., Eau Claire, Wis.  
Waterloo Cement Machinery Corp., Waterloo, Iowa

### CONCRETE REINFORCING BARS.

Inland Steel Co., St. Paul, Minn.  
Corrugated Bar Co., St. Paul, Minn.  
N. W. Concrete Steel Co., Minneapolis, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.

### CORNICES.

Griffin & Boehme, St. Paul, Minn.  
F. V. Haverland, Minneapolis, Minn.  
Minnesota Roofing & Cornice Works, St. Paul, Minn.  
R. S. Wishart & Co., Minneapolis, Minn.  
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.

### CORRUGATED IRON, ETC.

Corrugated Bar Co., St. Paul, Minn.

### CONCRETE REINFORCING.

Inland Steel Co., St. Paul, Minn.  
N. W. Concrete Steel Co., Minneapolis, Minn.

### CONTRACTORS.

N. B. Cagley & Co., Minneapolis, Minn.

### CONTRACTORS' SUPPLIES AND MACHINERY.

Decker Hardware Co., St. Paul, Minn.  
O. F. Symons & Co., Minneapolis, Minn.

### CULVERTS.

Victor H. Leeb, Fargo, N. D.  
Biesanz Stone Co., Winona, Minn.  
Klauer Mfg. Co., Dubuque, Ia.  
Minneapolis Steel & Mach. Co., Mpls., Minn.

### CRUSHED STONE.

Fowler & Pay, Mankato, Minn.  
Kettle River Co., Minneapolis, Minn.  
Klauer Mfg. Co., Dubuque, Ia.  
Mantorville Stone Co., Mantorville, Minn.  
New Ulm Stone Co., New Ulm, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Widell Co., Mankato, Minn.

### CREOSOTING.

Pepublic Creosoting Co., A. E. Larkin, Minneapolis, Minn.

### DEADENING MATERIAL.

H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Union Fibre Co., Winona, Minn.

### DECORATIONS.

Odin J. Oyen, La Crosse, Wis.

### DITCHING MACHINES.

Dix Machine Co., Stillwater, Minn.

### ELECTRICAL ENGINEERING.

Minneapolis Electric Equipment Co., Minneapolis, Minn.  
Northern Electrical Co., Minneapolis, Minn.

## RATES

For three lines in directory, giving name, address and goods handled, \$25 for 1 year, 52 times.

### SAMPLE AD

Great Northern Brick Company  
Pressed Brick and Drain Tile  
Minneapolis, - - - Minn.

### ELECTRIC MOTORS AND SUPPLIES

H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
Minneapolis Electric Equipment Co., Minneapolis, Minn.  
Sterling Electric Co., Minneapolis, Minn.

### ELECTRIC SPECIALTIES

Minneapolis Electric Equipment Co., Minneapolis, Minn.

### ELEVATORS AND ENCLOSURES.

Kimball Bros. Co., Council Bluffs, Ia.  
Gust Lagerquist, Minneapolis, Minn.  
Lee & Hoff Mfg. Co., St. Paul, Minn.

### ELEVATOR CABS.

N. W. Fixture & Cabinet Co., Mpls., Minn.

### ENGINEERS.

Oscar Claussen Engineering Co., St. Paul, Minn.  
Charles L. Pillsbury, Minneapolis, Minn.  
L. P. Wolff, St. Paul, Minn.  
M. B. Stone, Minneapolis, Minn.  
W. P. Cowles, Minneapolis, Minn.  
Power Engineering Co., Minneapolis, Minn.

### FIRE ESCAPES.

Crown Iron Works Co., Minneapolis  
Des Moines Structural Steel Works, Des Moines, Ia.  
Davenport Mach. & Fdy. Co., Davenport, Ia.  
Minneapolis Steel & Mach. Co., Mpls., Minn.

### FIREPROOF DOORS.

Thorp Fireproof Door Co., Minneapolis, Minn.  
R. S. Wishart & Co., Minneapolis, Minn.

### FLUE LINING.

Northwestern Lime Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.

### FIRE PROTECTION APPARATUS.

Waterous Engine Works Co., St. Paul, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

### FIREPROOFING DOORS AND SHUTTERS.

Selden Roofing & Manufacturing Co., Minneapolis, Minn.  
R. S. Wishart & Co., Minneapolis, Minn.

### FLOORING.

American Torgoment Flooring Co., Minneapolis and (Midway) St. Paul, Minn.  
Fama Stonewood Co., St. Paul, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co., Mpls. and St. Paul, Minn.  
Osgood & Blodgett Mfg. Co., St. Paul, Minn.  
Ranson, Birtram W., Minneapolis, Minn.  
I. Stephenson Co., Wells, Mich.  
Thomson-Williams Co., Duluth, Minn.

### FURRING.

Corrugated Bar Co., St. Paul, Minn.

### GAS AND ELECTRICAL FIXTURES.

Herber Chandelier Co., Minneapolis, Minn.  
Mpls. Electric Equipment Co., Mpls., Minn.  
Minneapolis Gas Fixture Co., Mpls., Minn.  
Sterling Electric Co., Minneapolis, Minn.

### GLASS.

American Luxfer Prism Co., Chicago, Ill.  
Minnesota Art Glass Co., St. Paul, Minn.  
Pittsburgh Plate Glass Co., Minneapolis and St. Paul, Minn.

### GRAVITY CARRIER.

Minnesota Manufacturers' Association, North St. Paul, Minn.

### HARDWARE TRIMMINGS.

Decker Hardware Co., St. Paul, Minn.  
Gardner Hardware Co., Minneapolis, Minn.  
Raymer Hardware Co., St. Paul, Minn.  
The Lane Co., Minneapolis, Minn.  
Waterous Engine Co., St. Paul, Minn.  
Warner Hardware Co., Minneapolis, Minn.

### HEAT REGULATORS.

Andrews Heating Co., Minneapolis, Minn.

### HEATING AND VENTILATING.

Andrews Heating Co., Minneapolis, Minn.  
Associate Mfrs. Supply Co., Minneapolis, Minn.  
Hasey Heating Co., Minneapolis, Minn.  
H. Kelly & Co., Minneapolis, Minn.  
National Mfg. & Supply Co., Mpls., Minn.  
Charles Wilkins & Co., Minneapolis, Minn.

### HOSE.

Gardner Hardware Co., Minneapolis, Minn.  
W. K. Morison & Co., Minneapolis, Minn.

### HOTELS.

Radisson Hotel, Minneapolis, Minn.



## NOTE

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### INSULATING MATERIAL.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co.....St. Paul, Minn.  
Union Fibre Co.....Winona, Minn.

### INSURANCE.

Fidelity & Deposit Co.....Minneapolis and St. Paul, Minn.  
Fred L. Gray Co.....Minneapolis, Minn.  
Hood & Penney Co.....Minneapolis, Minn.  
W. B. Joyce Co.....Mpls. and St. Paul, Minn.  
Minneapolis Insurance Agency.....Mpls., Minn.

### IRON AND STEEL WORK.

Avery Steel & Iron Co.....Minneapolis, Minn.  
Clinton Bridge Works.....Clinton, Ia.  
Crown Iron Works.....Minneapolis, Minn.  
Davenport Machine & Foundry Co.....Davenport, Ia.  
Des Moines Structural Steel Works.....Des Moines, Ia.  
Inland Steel Co.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
N. W. Concrete Steel Co.....Minneapolis, Minn.  
Oberg & Stainer.....Minneapolis, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.  
St. Paul Foundry Co.....St. Paul, Minn.  
E. J. Voggenthaler Co.....Dubuque, Ia.  
Youngstown Iron & Steel Co.....Minneapolis, Minn.

### JOIST HANGERS.

Avery Steel & Iron Co.....Minneapolis, Minn.  
Crown Iron Works Co.....Minneapolis  
Davenport Machine & Foundry Co.....Davenport, Ia.  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
Northwestern Concrete Steel Co.....

### LIME.

Fowler & Pay.....Mpls. and Mankato, Minn.  
Landers-Morrison-Christenson Co.....Minneapolis, Minn.  
Gust Lillyblad.....Red Wing, Minn.  
Shakopee Cement Lime Manufacturing Co.....St. Paul, Minn.  
Speakes Lime & Cement Co.....Superior, Wis.  
St. Paul Lime & Cement Co.....St. Paul, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.  
The Northwestern Lime Co.....St. Paul, Minn.

### MANTELS—GRATES.

Drake Marble & Tile Co.....Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
N. W. Marble & Tile Co.....Minneapolis, Minn.  
Twin City Tile & Marble Co.....Mpls., Minn.

### MARBLE, TILING, MOSAIC.

Drake Marble & Tile Co.....Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
N. W. Marble & Tile Co.....Minneapolis, Minn.  
Thomson-Williams Co.....Duluth, Minn.  
Twin City Tile & Marble Co.....Mpls., Minn.  
Des Moines Marble & Mantel Co.....Des Moines, Iowa

### METAL SHINGLES.

Milwaukee Corrugating Co.....Milwaukee, Wis.

### METAL AND WIRE LATH.

Corrugated Bar Co.....St. Paul, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.  
Johnson, Jackson & Corning Co.....Minneapolis and St. Paul, Minn.  
Northwestern Lime Co.....St. Paul, Minn.  
St. Paul Lime & Cement Co.....St. Paul, Minn.  
Thomson-Williams Co.....Duluth, Minn.

### MILLWORK.

Baxter Sash & Door Co.....Duluth, Minn.  
Osgood-Blodgett Mfg. Co.....St. Paul, Minn.

### MUNICIPAL CASTINGS.

Davenport Mach. & Fdy. Co.....Davenport, Ia.

### OFFICE FURNITURE.

Farnham Printing & Sta. Co.....Mpls., Minn.

### ORNAMENTAL IRON AND WIRE.

Builders Iron Works Co.....Minneapolis and St. Paul, Minn.  
Crown Iron Works Co.....Minneapolis  
Davenport Machine & Foundry Co.....Davenport, Ia.  
Demueles Bros.....Minneapolis, Minn.  
Flour City Ornamental Iron Works.....Minneapolis, Minn.  
Midway Ornamental Iron Works.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
St. Paul Foundry Co.....St. Paul, Minn.

### PAINTS, FILLERS, ETC.

Gardner Hardware Co.....Minneapolis, Minn.  
Ricketson Mineral Paint Works.....Milwaukee, Wis.

## The Buyer's Guide and Classified Directory of Advertisers

### PACKINGS AND HOSE.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

### PAVEMENT.

Barber Asphalt Paving Co.....Des Moines, Ia.  
Barrett Mfg. Co.....New York, N. Y.

### PICTURE MACHINES.

Northern Theatre Supply Co.....Mpls., Minn.

### PIPE AND BOILER COVERING.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

### PIPE—CAST IRON.

American Cast Iron Pipe Co.....Minneapolis

### PLASTER—WALL.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
Plymouth Gypsum Co.....Fort Dodge, Ia.  
Shakopee Cement Lime Co.....St. Paul, Minn.  
St. Paul Lime & Cement Co.....St. Paul, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.

### PLASTERING—ORNAMENTAL.

Brioschi-Minuti Co.....St. Paul, Minn.

### PLASTIC ORNAMENTS.

Brioschi-Minuti Co.....St. Paul, Minn.  
K. F. Lott & Co.....Mpls. and St. Paul, Minn.

### PLUMBING AND GAS FITTING

Charles Wilkins & Co.....Minneapolis, Minn.

### PRINTING.

Farnham Printing Co.....Minneapolis, Minn.

### PRISMS.

American Luxfer Prism Co.....Chicago, Ill.  
Crown Iron Works Co.....Minneapolis

### PLUMBING AND HEATING JOBBERS.

#### POWER PLANTS.

Associate Mfrs. Supply Co.....Mpls., Minn.  
Central Supply Co.....Minneapolis, Minn.  
National Mfg. & Supply Co.....Mpls., Minn.

#### RADIATORS.

Associate Mfrs. Supply Co.....Mpls., Minn.  
Central Supply Co.....Minneapolis, Minn.

#### REVOLVING DOORS.

Van Kannel Revolving Door Co.....St. Paul, Minn.

#### ROOFING GRAVEL AND ASPHALT.

Griffin & Boehme.....St. Paul, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
Krieger-Jamar Co.....Duluth, Minn.  
Minnesota Roofing & Cornice Works.....St. Paul, Minn.  
Northwestern Lime Co.....St. Paul, Minn.  
Scribner-Libby Co.....St. Paul, Minn.  
Selden Roofing & Manufacturing Co.....Minneapolis, Minn.  
Thomson-Williams Co.....Duluth, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

#### ROOFING—METAL.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.  
Duluth Corrugating & Roofing Co.....Duluth, Minn.  
Gardner Hardware Co.....Minneapolis, Minn.  
La Crosse Steel Roofing & Corrugating Co.....St. Paul, Minn.  
St. Paul Roofing, Cornice & Ornamental Co.....St. Paul, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

#### ROOFING MATERIAL.

Barrett Mfg. Co.....New York, N. Y.  
Corrugated Bar Co.....St. Paul, Minn.  
John Leslie Paper Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
McClellan Paper Co.....Minneapolis, Minn.

#### ROOFING AND SIDING—IRON AND STEEL.

Gardner Hardware Co.....Minneapolis, Minn.  
Inland Steel Co.....St. Paul, Minn.

#### RUBBER SHINGLES.

Standard Salt & Cement Co.....Duluth, Minn.

#### RUST-RESISTING IRON SHEETS.

Inland Steel Co.....St. Paul, Minn.

#### SAFES.

Diebold Safe & Lock Co.....St. Paul, Minn.  
Hellig & Elliott Co.....Minneapolis, Minn.  
Herring-Hall-Marvin Safe Co.

#### SAND AND GRAVEL.

Standard Salt & Cement Co.....Duluth, Minn.

#### SAW RIGS.

H. B. Jones, 349 Security Bank Building, Minneapolis, Minn.  
Raymer Hardware Co.....St. Paul

#### SEWER PIPE AND DRAIN TILE.

Ingalls Stone Co.....Bedford, Ind.  
Iowa Sewer Pipe & Tile Co.....Des Moines, Ia.  
Northwestern Lime Co.....St. Paul, Minn.  
Plymouth Clay Products Co.....Fort Dodge, Ia.  
Red Wing Sewer Pipe Co.....Red Wing, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.

## REMEMBER

Announcements on this page are read by architects, contractors, and the building trade generally, all over the Northwest and produce excellent results.

### SHEETS—IRON AND STEEL.

Gardner Hardware Co.....Minneapolis, Minn.  
Inland Steel Co.....St. Paul, Minn.

### SIDEWALK LIGHTS.

American Luxfer Prism Co.....Chicago, Ill.  
Crown Iron Works Co.....Minneapolis  
K. F. Lott & Co.....St. Paul and Minneapolis, Minn.

### SLATE BLACKBOARDS.

Twin City Tile & Marble Co.....Minneapolis, Minn.

### SKYLIGHTS.

Krieger-Jamar Co.....Duluth, Minn.  
St. Paul Roofing, Cornice & Ornament Co.....St. Paul, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### STEEL—BARS.

Inland Steel Co.....St. Paul, Minn.  
Twin City Tile & Marble Co.....Mpls., Minn.

### STONE.

Babcock & Wilcox.....Kasota, Minn.  
Biesanz Stone Co.....Winona, Minn.  
Also Building Material, Gravel for Roofing, Sand and Gravel.  
Breen Stone Co.....Kasota, Minn.  
Edw. Edinger Co.....Cedar Rapids, Ia.  
Ingalls Stone Co.....Bedford, Ind.  
Kettle River Co.....Minneapolis, Minn.  
Duluth Cut Stone Co.....Duluth, Minn.  
Mantorville Stone Co.....Mantorville, Minn.  
New Elm Stone Co.....New Elm, Minn.  
Pioneer Granite Co.....St. Cloud, Minn.  
Sauk Rapids Granite Co.....Sauk Rapids, Minn.  
Wm. Penn Stone Co.....Minneapolis, Minn.  
The Widell Co.....Mankato, Minn.

STRUCTURAL SECTIONS AND SHEETS.  
Inland Steel Co.....St. Paul, Minn.

### TANKS—STEEL.

American Bridge Co.....Minneapolis, Minn.  
Central Supply Co.....Minneapolis, Minn.  
Minneapolis Steel & Mach. Co.....Mpls., Minn.

### TELESCOPIC HOISTS.

Avery Supply Co.....Minneapolis, Minn.

### TERRA COTTA.

Johnson, Jackson & Corning.....Minneapolis and St. Paul, Minn.  
K. F. Lott & Co.....Minneapolis and St. Paul, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.

### VARNISHES.

Gardner Hardware Co.....Minneapolis, Minn.  
North Star Varnish Co.....Minneapolis, Minn.  
Twin City Varnish Co.....St. Paul, Minn.

### VALVES.

Central Supply Co.....Minneapolis, Minn.  
Crane Co.....Minneapolis, Minn.  
Crane & Ordway Co.....St. Paul, Minn.

### VAULTS.

Diebold Safe & Lock Co.....St. Paul, Minn.  
Hellig & Elliott Co.....Minneapolis, Minn.  
Herring-Hall-Marvin Safe Co.  
Also Vault Doors, Vault Furnishings and Filling Equipment.

### VENTILATING SYSTEMS.

Hackney Ventilating Co.....Minneapolis, Minn.  
Charles Wilkins & Co.....Minneapolis, Minn.

### WALL BEDS.

Northwestern Bedding Co.....St. Paul, Minn.

### WATERPROOFING.

Gardner Hardware Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co.....St. Paul, Minn.

### WATER TOWERS, STEEL.

Minneapolis Steel & Machinery Co.....Minneapolis, Minn.

WINDOW SCREENS—METAL FRAME.  
O. F. Symons & Co.....Minneapolis, Minn.

### WIRE AND IRON WORKS.

Builders Iron Works.....Minneapolis and St. Paul, Minn.  
Demueles Bros.....Minneapolis, Minn.  
Midway Ornamental Iron Works.....St. Paul, Minn.

### WEATHER STRIPS.

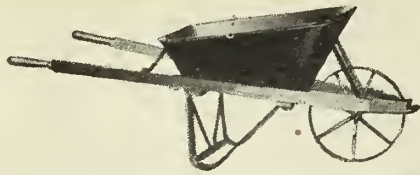
Metal Weather Strip Co.....St. Paul, Minn.  
O. F. Symons & Co.....Minneapolis, Minn.

### WOODWORKING.

G. E. Ingersoll.....St. Paul, Minn.



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**W. K. MORISON & CO.**

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## Waterproof Building Paper

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304-306 HENNEPIN AVENUE

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## IDEAL FLOORING

Maple --- Birch --- Beech



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WELLS, - - - MICHIGAN

## PLYMOUTH CLAY PRODUCTS COMPANY

FORT DODGE, IOWA

MANUFACTURERS OF

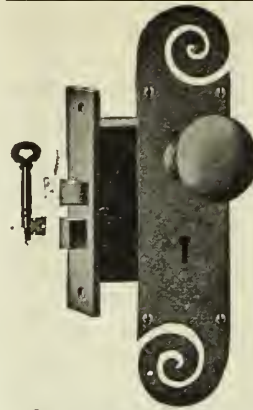
*Large Drain Tile*

*Sewer Pipe*

*Well Pipe*

*Flue Linings*

*Wall Coping*



## WARREN DESIGN COLONIAL

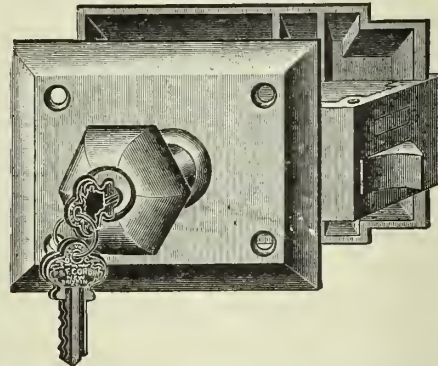
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hardware provides the distinction and worth that lies in artistic designs and honest workmanship.

Ask for Catalogs

**WARNER HARDWARE CO.**

13 So. 6th St.  
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**CORBIN  
LOCKS**

We make a Specialty of fine Builders' Hardware and Contractors' Supplies Estimates furnished promptly.

**ADAM DECKER HARDWARE COMPANY**

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ST. PAUL, MINN.

## BUILDING MATERIALS

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All Kinds

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LET US FIGURE;

ALL ESTIMATES FREE

**CARR-CULLEN CO., Minneapolis**

10 Ave. N. E. and Marshall St. N. E. Tel. N. W. East 345. T. S. No. 345.

Face Brick      Enameled Brick

Architectural Terra Cotta

Metal Lath

Cabot's Creosote

Shingle Stains and

Sheathing Quilt

**JOHNSON - JACKSON & CORNING CO.**

216-17 Lumber Exchange  
MINNEAPOLIS, MINN.

633 Ryan Building  
ST. PAUL, MINN.



# The IMPROVEMENT BULLETIN

OFFICIAL ORGAN OF THE MINNESOTA STATE ASSOCIATION OF BUILDERS EXCHANGES

VOLUME XLVII.

SATURDAY, MAY 2, 1914

NUMBER 22

## EDITORIAL

O. L. COLBURN, Editor

### SOMETHING UNUSUAL IN MUNICIPAL ADVERTISING.

Away out in Wyoming an advertising idea is going into effect which is worth considering. The town of Sheridan is raising money for a display building at the railroad station. It will be an attractive brick structure with large, plate glass windows on three sides. The use of the land required for the site was given by the railroad. A great deal of the material to be used will be donated. The building will be occupied by displays of products of Sheridan county, and devices to show the natural attractions, advantages, resources. Printed matter will be found in generous quantities for all visitors. The credit for this enterprise is given to Mayor Tyman and to the Chamber of Commerce by the local press. If Reno, Nev. had such a building it might contain a few wax figures of women graduates in a divorce court receiving their diplomas with happy smiles.

### ARCHITECTS DO CROSS THE ALLEGHENYS.

"Do architects of taste cross the Alleghenys," asks the San Francisco Architect and Engineer. Yes, they do—going east. Cass Gilbert, for instance, who went from St. Paul to New York and showed the people there the last word in tall building architecture. D. H. Burnham remained a resident of Chicago and produced a White City, a revelation of architectural beauty which brought millions over the Allegheny mountains, westward, to see what the east has never equalled. Mr. Burnham frequently crossed the Alleghenys, going east and returned west, satisfied to remain there. Some months ago the Improvement Bulletin reprinted from the Architect & Engineer a number of illustrations showing the beauty and originality of architecture in the far west, and particularly near the Golden Gate. The best taste comes from inborn graceful feeling, from talent; and that talent may appear anywhere. The west may send east another Gilbert and it may furnish another Burnham his great opportunity. Architects of taste will flock across the Alleghenys whenever the coupon-clippers cease to affect the east and appear in large numbers to the westward.

### FORTUNATE UNIVERSITY STUDENTS.

Building a street car line between widely separated parts of the University of Minnesota will serve several good purposes. None of them is more important than to give the students of the engineering department a great chance to study traction problems. Prof. G. D. Shepherdson of the engineering department says that the trolley line, which will be owned by the university and will extend virtually from Minneapolis to St. Paul, from the University on the Mississippi in Minneapolis to the Farm school, north of St. Paul, will provide, "a readily available laboratory for experiments."

"We have not yet worked out plans, but we have talked of using the coal cars on the other end of the college line for experimental work by the students," said the professor.

The problems on which the students will work will be those of speed and power; how much power it takes to get up speed under different degrees of acceleration; how much power is used under varying conditions, and how far a car will run after the current has been shut off.

### ARE PIECE-WORK EMPLOYEES INDEPENDENT CONTRACTORS.

The question came before Judge Fisher of Duluth the other day of whether laborers employed by lumber companies and other corporations at piece work are independent contractors within the meaning of the law, of whether they come within the terms of the working men's compensation law.

An employe of the Virginia & Rainey Lake Lumber Co., being paid by the piece, tools furnished by the company, lost an eye. He sued for \$1,050 damages. Charles E. Adams, attorney for the plaintiff argued that the system of hiring men by the piece as "independent contractors" was a device employed by the company to evade responsibility under the law for any injuries which might occur. Howard T. Abbott appeared as attorney for the company.

The piece work question had never been raised before.

### DEFINITENESS IN BUILDING LAWS.

For the sake of fairplay and the achievement of the important objects of building departments and ordinances the city laws formulated for this branch of municipal service should be clear. In every instance and in all details of building regulations the wording must be such as to leave no doubt as to the inspector's duty. Careless obscure drafting of laws is a source of vast trouble. In building departments of city governments it results in "interpretations" which may or may not be right. They depend on the good will and good sense of the commissioner or inspector, who has the issuing of permits, and the regulation of construction at his command.

Minneapolis and St. Paul are fortunate in having painstaking officials so that there is general satisfaction with the administration. Elsewhere the people seem less contented with conditions. O. F. Fall, inspector at Regina, in an interview said: "A by-law is being prepared which relates to the building line. It is admitted that open verandahs may extend beyond the line, as they do not obstruct the view. From this to closed verandahs is a very short step and from this to bay windows. The by-law cannot define in detail what may extend beyond, and many such cases of possible infringement of the by-law arise from time to time."

Mr. Fall, as quoted, inclined to favor interpretation of ordinances along broad lines of public policy, rather than strict adherence to the letter of the clauses. But the practice of interpreting seems dangerous. Different inspectors, different views. It is far better to be careful and set down the law simply, accurately, completely.

### ARCHITECTURAL EXHIBIT AT SAN FRANCISCO.

The committee appointed to make a report to the Board of Directors of the American Institute of Architects as to the advisability and practicability of an architectural exhibit in connection with the San Francisco Exposition in 1915 presented the following report at the recent convention in New Orleans:

1. It is recommended that the executive committee request the directors of the exposition to assign approximately 3,000 square feet of floor area in the Palace of Fine Arts for the purpose of an architectural exhibit; that in making this request the executive committee notify the directors of the exposition that the institute will, in case this assignment is made, appoint a suitable committee to take full charge of the selection of exhibits, and the arrangement and hanging of the same, provided the directors of the exposition are willing to delegate this power to the institute.

2. The institute shall undertake no responsibility in the matter of defraying any part of the expense of such exhibit.

3. A member of the institute, resident in San Francisco, should be appointed as chairman of the exhibition committee, and this appointment should be made in advance of the request of the directors of the exposition, in order that the chairman may be empowered to discuss with the directors of the exposition and the chief of the department of fine arts all questions as to the exact jurisdiction of the institute and the exposition authorities in connection with the architectural exhibit.

A. The exhibit above mentioned should be planned in such a way as to be particularly expressive of the development of architecture as an art, and should include architectural drawings and photographs, models and cartoons, selected with special reference to beauty of design. It should not include material illustrative of the progress in the science of architecture and building. As a means of expressing the latter phases of architectural development, the institute should recommend the allotment of space in the Liberal Arts Palace for an exhibit, with regard to which the institute's committee should not be concerned except as its advice might be called for.

5. Provided the request for the assignment of space in the Department of Fine Arts is granted under the conditions outlined, an exhibition committee should be appointed under the chairmanship of the member above mentioned, consisting for the most part of members of the institute resident in San Francisco, with additional members in the other principal cities.

6. In case the above recommendations are approved by the board of directors of the institute, the present committee will immediately proceed to formulate more detailed suggestion as to the plan and scope of the proposed exhibition.

J. MONROE TEWLETT, Chairman.



# Iowa's Beautiful Capital Like Paris

Des Moines, making fine use of river banks and the civic center, with city, county and state public buildings of artistic merit rises properly to its dignity as a seat of government; and is also a city of solid business thrift and progress; rich in ornamental bridges; favored with clean, well paved streets, handsome homes and churches.

Strangers getting first impressions of the capital city of Iowa are impressed with its resemblance, in the development of its municipal opportunities for beauty, to the city of Paris. This effect is given by the extraordinary use, under an excellent architectural plan, of the river and its banks, and the public buildings needed in the city for municipal, county and state offices. The bridges are graceful structures; the capitol, city hall and court house are set along the river on both sides. Wide clean, well paved streets stretch away



Ralph Bolton, Secretary Greater Des Moines Committee.

from the parks, and parking along the river. In the business center the tall office buildings add to the interesting picture; and beyond are handsome homes, with many fine, modern church edifices lifting their spires among them. Des Moines, is, in short, one of the best examples in the country, of the charm which may be found in cities of its size, but seldom or never in the unwieldy mass, the hippopotamus proportions of metropolises.

Four governments help Des Moines to improve its natural advantages for a city beautiful: the United States, with a federal building; the state with its dignified structures; the county, with its court house, set as court houses should be, in parking; the city, with its municipal headquarters building and public library. The state has just begun a great series of improvements of the capitol grounds which will cost \$2,000,000. The ornamental lighting system of the city always attracts the attention of the visitor on account of its artistic merit and liberality in distribution.

On another page, in the special Des Moines section, the secretary of the Greater Des Moines committee, Ralph Bolton, writes of the commercial advantages and progress of the city; and the pages of announcements from leading business houses show further that beauty and thrift are boon companions in this fortunate city.

## SOME DES MOINES ADVANTAGES.

Des Moines is the political and commercial capital of the greatest wealth producing area in the world.

The State of Iowa produces annually from her soil over \$600,000,000 in agricultural products—more than all the gold mines.

The people of Iowa have \$1,828 wealth per capita—nearly 50 per cent more than the average.

Des Moines has 91.72 miles of paving. (Brick, asphalt, bitulithic, creosote blocks, macadam and concrete.)

Des Moines has 131.29 miles of sewerage.

Des Moines has 148 miles of water mains.

Des Moines has 182 miles of gas mains. (Ninety cent gas.)

Des Moines has 82 miles of electric street railway trackage.

Des Moines has 20 parks, 717.26 acres.

Des Moines has Interurban lines to the north, south, east and west.

Des Moines has eight steam roads operating 19 different lines that reach every point in the state.

Des Moines has 108 churches—every denomination.

Des Moines has 64 schools—public and private.

Des Moines has 15 colleges and technical schools.

Des Moines has 6,200 college population.

Des Moines pays over \$10,000,000 annually for freight charges.

"Des Moines is a City of Certainities because Des Moines Does Things."

(Further Des Moines articles on page A, Special Des Moines Section.)



Street in Des Moines.



# Barrett Specification Roofs

## A \$10. repair bill on 70 acres of roof— over a 16-year period

THE Bush Terminal Buildings in Brooklyn, N. Y. extend a mile along the shore.

The net roof area of these buildings is 3,100,000 square feet—over more than 70 acres. Every inch of this is roofed with Barrett materials—and, since 1897, when the first roof was covered, the cost of maintenance has been less than \$10.00.

The Bush Terminal people write us:

"We use this kind of roofing because our experience has shown it to be the best

and cheapest. Our analysis of first cost of application and cost of maintenance entitles us to speak with some measure of authority."

The idea behind The Barrett Specification is an old one, established by years of experience—namely, that coal tar pitch, tarred felt and gravel or slag, when properly laid, make the best and most economical roof.

Architects, engineers and contractors know that if The Barrett Specification is followed absolutely, the resulting roof will last longer and cost less than any other kind.

### Hydronon

*The Damp-proofing Paint*

Especially recommended for use above the ground level on the interior of stone, brick or concrete walls to exclude dampness.

Has superior covering capacity and is vastly superior to other paints in its permanence and resistance to dampness. It penetrates into the pores of the brick so that an accidental abrasion does not break the waterproof seal. Furnishes satisfactory base for plaster and keeps the plaster from injury by dampness in the wall.

**Special Note** We advise incorporating in plans the full wording of The Barrett Specification in order to avoid any misunderstanding. If any abbreviated form is desired, however, the following is suggested: ROOFING—Shall be a Barrett Specification Roof, laid as directed in printed Specification, revised August 15, 1911, using the materials specified and subject to the inspection requirement.

*Booklets on request, including a copy of The Barrett Specification.*

## BARRETT MANUFACTURING COMPANY

New York Chicago Philadelphia Boston St. Louis Cleveland Pittsburgh  
Cincinnati Kansas City Minneapolis Seattle Birmingham  
THE PATERSON MFG. CO., Montreal Toronto Winnipeg Vancouver St. John, N.B. Halifax, N.S. Sydney, N.S.





# PERSONAL AND GENERAL NEWS.

Doings of the Northwest this Week Boiled Down for Busy Readers

## PERSONAL AND GENERAL.

Universal Portland Cement Co., Chicago, announces that the general offices of the company on and after Monday, April 27, will be located at 208 S. La Salle st., in the new Continental and Commercial Bank building. New telephone number will be Wabash 6061; T. J. Hyman, secretary.

Meeting of the Red Pressed Brick Co., Barron, Wis. was held April 1. All the old officers were elected: President, G. A. Koerner; vice president Otto Berg; secretary-treasurer, K. E. Thompson; directors, Otto Berg, J. P. Kohl, J. R. Ferris, F. A. Hulbert, G. A. Koerner. The business of the company is good and 3,000,000 of brick is the proposed output of this year with 35 men employed.

E. J. Prah, contractor, Miles City, Mont., has returned from California, where he spent the winter and bought land in Imperial Valley.

Geo. R. Metlen, secretary, state highway commission, Helena, Mont., urges a uniform price for steel road material.

Geo. B. R. Bond of Bassano, Alberta, writes that Bassano will build soon a cottage hospital, about \$5,000. Bids are being called for the \$35,000 brick and stone postoffice, Leo Dowler, architect, Calgary. Bennett, Debnan & Co., 52 Thomas block, Calgary, got the contract for the sewage disposal plant at \$11,000.

## ARCHITECTS AND ENGINEERS.

### LECTURE ON HOLLOW TILE CONSTRUCTION.

Harold Johnson, representing the National Fireproofing Co., will deliver a lecture on Hollow Tile Fireproof Construction in the auditorium of the engineers' college, state university, on Tuesday next, May 5th at 12 noon, under the auspices of the Architects Society. All those interested are invited to be present.

E. P. Callahan, engineer, at the new dam for the water power company at Little Falls, Minn., asked leave to "bury a dead man" in a back yard there, and startling reports got into circulation about town. He explained the guy rope detail.

At the annual meeting of the Lewistown, Mont., Electric & Power Co., just held in Lewistown, it was decided to dissolve the company, which will be absorbed by the parent company, the Montana Power Co. The general books for the Lewistown branch will be kept at Lewistown and the business will be conducted as previously, merely under a change of name. Until the final dissolution of the company the old officers were elected to serve: Max Hebgen, president; H. H. Pierce, vice president; Rudolf von Tobel, secretary; C. C. Simonson, managing director; W. J. Johnson, F. F. Kerr and E. P. Pennebaker, directors.

A resolution providing for the sale of certain Wausau, Wis., city property to be used for a granite works was introduced at a recent meeting of the city council. The new granite company will be composed of local men who have worked up from all stages till they are at present employers of labor themselves. The prophecy of C. E. DeVoe of the Marathon County Granite Works, that eventually this section would become the center of a great granite industry, is being fulfilled.

B. B. Maxwell, contractor, Charleston, Ill., is building the Methodist church at Jamestown, N. D.

Chilson D. Aldrich and Miss Clara C. Thomas were married April 18, and are now at home at 700 Kenwood parkway, in a new modern residence just built by Mr. Aldrich from plans by himself. Mr. Aldrich has been in charge of the office staff of W. Channing Whitney for a number of years. He is a former secretary of the Architectural club and well known in and out of the Twin Cities among draughtsmen and architects. Mrs. Aldrich has resided in Minneapolis for some years.

The Northern Briquetting Co. has moved into its elegant new quarters on the top floor of the Optic Flatiron building, Minot, N. D. In addition to making briquettes, which are proving popular in North Dakota, the company is developing the brick-making industry, and a big volume of business along this line is expected during the coming season.

Roy H. Allison, recently appointed engineer of judicial ditch 5, by Judge Pfau, Mankato, Minn., is a candidate for county surveyor.

E. P. McGahn has been appointed assistant city engineer at St. Cloud, Minn., by the commission. Mr. McGahn began his new duties on May 1.

The Civil Engineers' Society of St. Paul had an interesting session in the council chambers, City Hall, Wednesday evening, April 22. R. A. Plumb gave an illustrated talk on structural waterproofing and dampproofing. The audience included members and friends.

## FOURTH LARGE REFRIGERATOR CONTRACT.

The Grand Trunk Pacific Railway Co. have just placed order with the White Enamel Refrigerator Co. of St. Paul, for complete refrigerator equipment for their new Hotel MacDonald now under construction at Edmonton, Alberta.

This is the fourth large refrigerator contract which the Grand Trunk people have placed with the White Enamel Refrigerator Co., the other three being the Chateau Laurier & Central Union Statelton, Ottawa, and the Fort Garry hotel, Winnipeg.

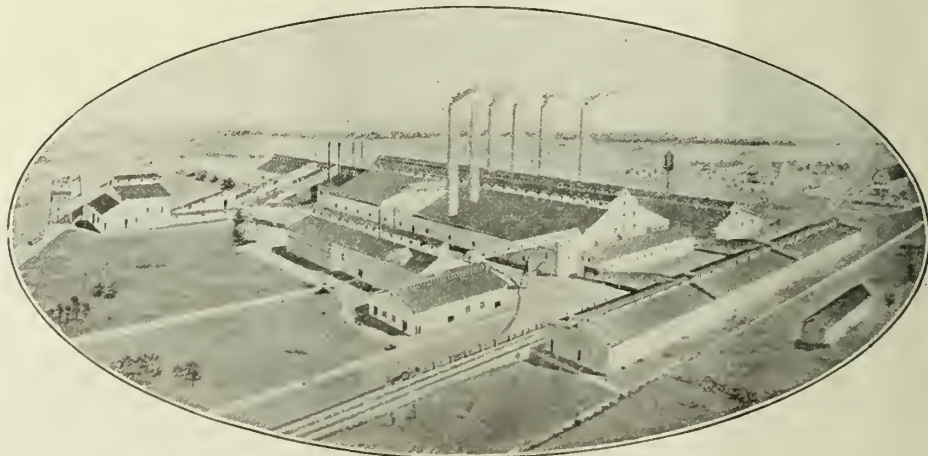
It is well known that railroad companies are perhaps the greatest sticklers for quality of any class of buyers in the country and the fact that all of the Grand Trunk Pacific's hotels are equipped with Bohn Syphon Refrigerators is a pretty good indication that this new transcontinental road is no exception to the rule.

## A COMPLETE STEEL PLANT.

One of the most complete steel plants in Iowa is that of the Shorthill Co., Perry, Iowa, with sales office in the S. & L. building, Des Moines. The Shorthill Co. makes the point that eastern orders mean long shipments, with the necessary cost of the long haul of freight; and time required for delivery. The Shorthill plant is right at home. The products of this factory include, steel bridges, girders, structural steel, beams, angles, channels, bars and boiler and engine supplies, also cold rolled shafting.

## THE DARWIN COMPANY. Interior Decorators.

One of the best known establishments in Des Moines is that of The Darwin Co., interior decorators. This company has one of the handsomest studios in the state and their work may be seen in most of the clubs and best residences in the city. The high grade of work and the large stock carried of imported papers and fabric wall coverings, window hangings and rugs have gained for this company a reputation and extent of patronage unexcelled in the state.



Iowa Portland Cement Co. Plant, Des Moines.

The company aims to show all fabrics of merit as brought out in on the continent as they are large importers.

The Darwin company designs rugs, lighting fixtures, mantels and woodwork and frequently assists architects in planning interior details.

Designs by the Darwin company are frequently seen in the trade journals and the establishment is classed among the best of its kind in the country. No contract is too large since they have full equipment for the most extensive requirements, and resources equal to any demands.



# Tarvia

*Preserves Roads  
Prevents Dust~*



*East Front  
Street,  
Newbern, N. C.*

*The circle shows  
the street during  
the flood.*

*The larger photo-  
graph shows it  
after the the flood  
— Tarvia pave-  
ment uninjured.*



## Even Floods do not affect a Tarvia Roadway—

Here is a road that was built in 1911 with a five-inch concrete base and a two-inch macadam surface bonded with Tarvia.

In September, 1913, it was flooded by river and tide in a great storm, as shown in the small picture. When the waters subsided the tarviated road was unharmed and no repairs were required! The larger photograph was taken *after* the flood.

The City Engineer, Raymond R. Eagle, writes:

"While this was a very severe test on the pavement it stood up perfectly under it and the pavement remained in as good condition as before the storm." He also says: "The Tarvia has given entire satisfaction."

Tarvia is a coal tar product of great bonding power.

It encloses the stone in a tough matrix from which neither water nor traffic can tear it loose.

It vastly increases the durability of the road and usually cuts down the repair bill enough to offset the entire cost of the treatment.

Tarvia is made in three grades: "Tarvia X" is suitable for building Tarvia—macadam roads; "Tarvia A" and "Tarvia B" are thinner grades suitable for roads already in use, to preserve them and make them dustless.

Booklet regarding the Tarvia treatment free on request.

### BARRETT MANUFACTURING COMPANY

New York	Chicago	Philadelphia	Boston	St. Louis	Kansas City	Cleveland
Cincinnati	Minneapolis	Pittsburgh	Seattle	Birmingham		
THE PATERSON MFG. CO., Limited:		Montreal	Toronto	Winnipeg	Vancouver	
St. John, N. B.		Halifax, N. S.	Sydney, N. S.			





# Concrete Roads

are smooth, but not slippery, clean, dustless, economical and permanent.

They are moderate in first cost and low in maintenance charges.

Write for "Concrete Pavements, Sidewalks, Curb and Gutter," one of our many free booklets on concrete in road construction.

## UNIVERSAL Portland Cement Co.

### OFFICES:

Chicago - - 208 South La Salle Street  
Pittsburgh - - - - - Frick Building  
Minneapolis - - Security Bank Building

Annual Output 12,000,000 Barrels  
Plants at Chicago and Pittsburgh





# CONSTRUCTION & CONTRACT NEWS

OF SPECIAL VALUE TO ENGINEERS, CONTRACTORS, BUILDERS AND MANUFACTURERS

## MINNEAPOLIS, MINN.

Office: 912 Lumber Exchange.  
Phones: N. W. 3902. T. S. 2134.  
Please telephone news not later than Wednesday.

Items marked with asterisks not in Daily Sheets.  
BUILDING PERMITS.

Homebuilders Const. Co., 3117 38th av. S., 1½-story frame dwl.; Homebuilders Const. Co., builders.....	2,500
Homebuilders Const. Co., owners and builders, 2018 James av. N., 1½-story frame dwl.....	2,850
Bridgman & Ryan, 1411 N. Sheridan av., 1-story frame dwl.....	2,975
Erick Blomgren, 811 N. Russell av., 1½-story frame plaster veneer dwl.....	2,500
Carl E. Lundberg, 3013 2d av. S., two 2-story frame additions, repairs, alterations and foundation; E. C. Anderson, builder.....	3,700
Homebuilders Const. Co., owners and builders, 2806 39th av. S., 1-story frame dwl.....	2,200
Hope Lutheran Church, 1217 6th st. SE., 2-story plaster veneer dwl.; S. Offerdahl, builder.....	4,000
Dr. K. S. Kavanaugh, 3117 S. Aldrich av., 2-story plaster veneer dwl.; John B. Miller, builder.....	3,500
John A. Ecklund, 3039 S. Humboldt av., 2-story plaster veneer duplex; John A. Ecklund, builder.....	6,500
John A. Ecklund, 4130 Wentworth av., 1½-story frame dwl.; John A. Ecklund, builder.....	3,000
John A. Ecklund, 4028 Pleasant av., 1½-story plaster veneer dwl.; John A. Ecklund, builder.....	3,000
Jacob Price, 512-14 Emerson av., 2-story frame duplex.....	4,000
Ella E. Matthews, 4148 S. Upton av., 1½-story plaster veneer and tile dwl.; C. F. Williams, builder.....	4,000
M. F. Schulz, 1010-12 Plymouth av., 2-story plaster veneer duplex.....	3,500
Edwin C. Goodrich, 4228 Chicago av., 1½-story plaster veneer dwl.....	2,000
Edwin C. Goodrich, 4232 Chicago av., 1½-story plaster veneer dwl.....	2,000
George G. Josephine and H. L. Benz, 408-14 Hennepin av., brick, terra cotta, steel tile and reinforced concrete theater; W. J. Hoy Co., builders.....	150,000
Wolfman Bros., 3504-06 Chicago av., 1-story brick stores (2); J. H. McKenzie, builder.....	3,000
A. E. Dexter, 4133 Garfield av., 1½-story plaster veneer dwl.; Heaton & Ellison, builders.....	4,000
P. T. McCaffrey, 2749 Stevens av., alterations to dwl., front porch; Heaton & Ellison, builders.....	2,300
Roy Porter, 5220 S. Xerxes, 1-story plaster veneer tile dwl.....	2,900
Board of Park Commissioners, 11th av. S. and 34th st., 1-story brick, steel and tile reinforced concrete pavilion; Standard Const. Co., builders.....	2,800
J. P. Baker, 2943 46th av. S., 1½-story plaster veneer dwl.; Geo. Adams, builder.....	2,685
Lawrence T. Noyes, 3529 33d av. S., 1½-story frame dwl..	2,000
A. Pauline Littell, 4449 Washburn av. S., 1½-story plaster veneer dwl.; Boutin & LaMotte, builder.....	2,800
Fred Anderson, 1715 E. 46th st., 2-story frame dwl.; A. Albinson, builder.....	2,800
L. S. Donaldson Co., 600 Marquette av., new store front, also interior alterations; H. N. Leighton Co., builders..	3,500
C. S. Beauchine, 1915 N. Logan av., 1½-story plaster veneer dwl.; F. O. Anderson, builder.....	3,700
Ida M. Smith, 3323 Columbus av., 1½-story plaster veneer dwl.....	2,000
Chas. E. Christstrom, 230 W. 40th st., concrete and concrete block foundation, alterations; S. W. Heath, builder.....	4,000
J. E. Pilgram, owner and builder, 1820-22 Fremont av. N., 2-story brick duplex.....	4,200
C. E. Lyons, 4616 Pleasant av., 1½-story frame dwl.....	3,000
S. H. Holt, 3729 12th av. S., 1-story plaster veneer dwl..	2,000
Sixth Church of Christ, Scientist, 813-23 Summit av., interior finishing of church; H. N. Leighton Co., builders..	30,000
E. J. Collins, 3006 W. 43d st., 1½-story plaster veneer dwl.	3,500
Chas. W. Oswald, 2202 N. Russell av., 2-story frame dwl..	3,200
Nicholas Pierro, 1422 N. Emerson av., 1½-story frame dwl.; C. F. Sandhoff, builder.....	3,675
City of Minneapolis, 1828 2d st. S., 1-story brick "Sixth Ward" tool house.....	3,000
J. P. Peterson, 3745 11th av. S., 1½-story frame dwl.; N. P. Amren, builder.....	3,000
Ed. M. Wold, 2406 Johnson st. NE., 1½-story frame dwl.; Julius Sholl, builder.....	2,800
Winston, Harper, Fisher Co., 119-29 N. 4th st., reinforced concrete area walls and slabs; Pike & Cook Co., builders	6,000
H. H. Placke, 2206 S. Irving av., 3-story brick flats (6)....	25,000

Bids will be received by the library board, Library building, until 12 m., May 6, 1914, for the erection and completion of a branch library building to be erected at 4th av. and 36th st. S., including the general work, separate proposal, plumbing work separate, heating work, separate; electrical work, separate, painting and varnishing, separate or the entire combination of the aforesaid branches of the building operations may be figured under one proposal plans by Henry D. Whitfield, architect, 160 5th av. N. Y. and Chapman & Magney, supervising architects, 509-10-11 Essex building, Minneapolis, Minn. Plumbing, heating, electrical, painting and

varnishing, 10 per cent; plans at supervising architects, 509-10-11 Essex building, 84 10th st. S., on or after April 25; surety company's bond full amount of contract.

Erection of a \$22,000 sewer department warehouse and construction of \$4,000 of sidetracks were ordered by the council committee on sewers as the first step toward improving the new joint city department storage yards, formerly the old circus grounds, at Cedar av. and 26th st., recently purchased for \$25,000. The city building inspector was commissioned to build the warehouse under the day labor plan. He was authorized to make A. Q. Fischer an assistant inspector in charge of the work. The water works and paving departments probably will begin putting up building soon in the new yards.

\*Rose & Harris, consulting engineers, Auditorium block, have prepared plans for a park light system for South and Alcott parks, Virginia, Minn.; Morrel & Nicholls, Minneapolis, landscape architects; ornamental standards to be bought by park board; one series and one parallel system; same engineers preparing plans, out this week, for deep well, pumping equipment, for American Linen Co., Mary Place.

H. Edward Walker, 202 Lumber Exchange, architect of the new public bath, on the commons, Excelsior, Lake Minnetonka, announces the general contract let to Standard Construction Co., Plymouth building, at \$4,317; administration building and one wing; contract for lockers not let; completed June 15.

City will have still another skyscraper, 20 to 25 stories and similar to the Soo-First National, to be built at 4th st. and 2d av. S. Sketches understood to have been made; and inquiries regarding details; permit applied for by W. L. Brackett, 616 Northwestern Bank building, for Standard Building Corporation.

\*Kirby T. Snyder, architect, Plymouth building, has prepared plans for a school at Clarissa, Minn.; 2-story, finished basement, eight rooms, steam heat, modern, fan system, composition roof. See official advertisement in Improvement Bulletin this week. Plans ready May 5.

\*F. W. Kinney, architect, Plymouth building, is preparing plans for a hall and opera house, Claremont, Minn.; 44x90, two stores, brick; also has plans completed for residence for Mrs. A. D. Woods, Minneapolis; also has plans for changing his own residence to duplex.

\*Purcell & Elmslie, architects, Auditorium block, have prepared plans for a bank building, Southern Minnesota; 2-story, 25x60, brick, stone trim, warm air heat, no fixtures, no steel ceiling or marble work; vaults, tile; plans out in three weeks; architects will take figures.

\*Purcell & Elmslie, architects, Auditorium block, have prepared plans for a modern residence, Lake of the Isles; owner's name withheld, 30x30, frame, 2-story, tar and gravel roof, warm air heat, sleeping porch, tile bath, brick fireplace; plans out for figures.

H. Edward Walker, architect, Lumber Exchange, is preparing plans for two modern residences at Fairmont, Minn.; for O. F. Mayer and J. F. Roskopf; stucco, hot water heat, electric light; brick fireplaces; plans out soon; owners will let all work.

\*Chapman & Magney, architects, have prepared plans for remodeling and adding to residence of D. N. Tallman, Willmar, Minn., new plumbing, new bath, sun porch, tile floors, large colonial music room; H. N. Leighton Co., contractors, Minneapolis.

Contract awarded for Briggs apartment building, Lagoon and James, to James Peterson, 3152 10th av. S., general, includes heating and plumbing, McNamara varnishes specified in painting; O. K. Westphal, architect, Northwestern building.

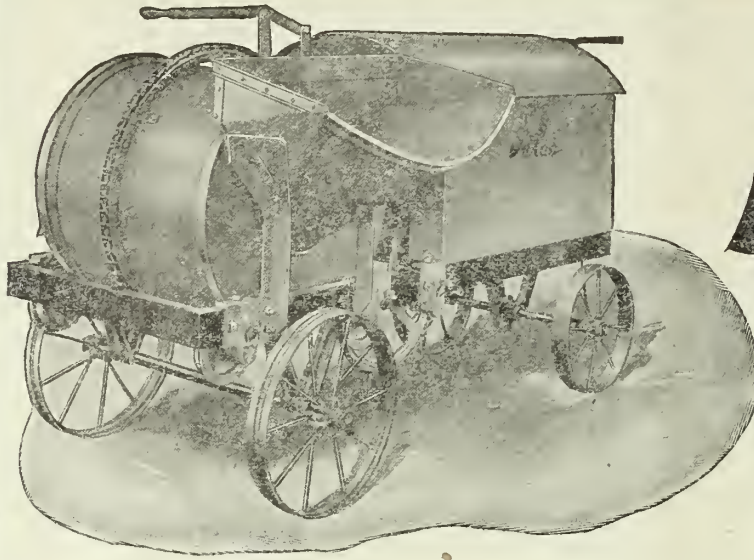
In preparation for the addition to the Swedish hospital one building has been moved across Ninth av., the board has awarded contract for underpinning and repairing same to S. M. Klarquist & Son, Security Bank building.

\*Bids received till 12 noon May 15, for bank, Tower City, N. D.; C. E. Bell, architect, Security building. See official advertisement in Improvement Bulletin this week.

Increasing business has caused the Hale Concrete Machinery Co. to move from 633 Metropolitan Life building, Minneapolis, to larger quarters, 1042 McKnight building.

\*Purcell & Elmslie, architects, Auditorium block, will have plans out in two weeks for the parsonage, Eau Claire, Wis.,





# Atlas

## MIXERS

**2 $\frac{1}{4}$  Cubic Feet  
Every Minute**

And the drum keeps right on mixing. Not an instant is lost. Every batch is so perfectly proportioned that you never need to look into the mixer—just carry away the deep rich load and keep on carrying to the tune of fifty yards a day. The

## Low Charging Feature

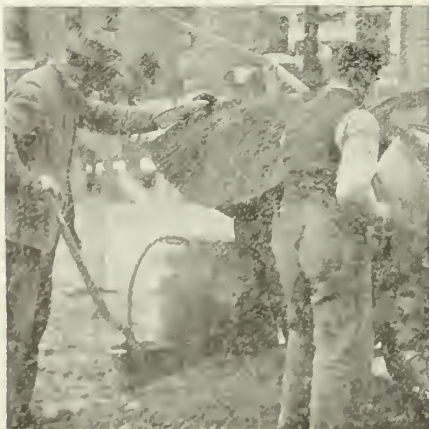
of the Atlas is what first attracted attention; every man on the job wanted to work with the Atlas—it was easier. Then contractors observed its splendid construction, absolute portability, and above all, that it was "fool-proof." It is a mixer that is mechanically perfect, which will stand the hardest kind of usage and which sells at a remarkably low price. Write for descriptive literature—free upon request.

## Atlas Engineering Company

*Producers of high grade, low priced Concrete Mixers*  
780—30th ST., MILWAUKEE, WISCONSIN

The Corby Supply Company  
815 Hempstead St.,  
St. Louis, Mo.

W. E. Austin Machinery Co.  
Southern Sales Managers  
Atlanta, Ga.



The low charging feature

Cook & Koons, 702 Finance Bldg.  
Kansas City, Mo.

Brooks-Ward Supply Co., 24 Commerce St., Baltimore, Md.

J. C. Campbell & Company, First National Bank Bldg., Chicago, Ill.

Henry J. McCoy Company  
65 Dey St., New York, N. Y.

Lacy & Hursh, 40 N. Sixth Street, Philadelphia, Pa.

The Buffalo Contractors' Equipment Co., Builder's Exchange, Buffalo, N. Y.

Kirk Supply Company, Jenkins' Arcade Bldg., Pittsburgh, Pa.



A good load in a few seconds



for First Congregational church; frame, plaster exterior, warm air heat, 24x32, modern; work let locally.

Two brick stores will be built by Wolfram Bros., 3500 Chicago av., at 3504 Chicago av.; 32x70, 1-story, concrete foundation, \$3,000; W. S. Hunt, architect, Northwestern block, J. H. McKenzie, builder, 204 Plymouth building.

Information wanted:—Name and address of parties who supply Portage Red Sandstone, quarried in Minnesota. Address, A. Parsons, architect, 303 Washington st., Wausau, Wis., or the Improvement Bulletin.

Bids in May 28, for 3.8 miles concrete road Superior blvd., 4½ miles gravel and grade Cedar av.; estimated cost \$61,000; bids in May 18 on concreting Crystal Lake hill; ½ mile; A. P. Erickson, county auditor.

Carl A. Gage, architect, Auditorium block has completed plans for a modern residence, 4145 S. Upton, for Ella S. Mathews; 26x36, plaster veneer, tile \$4,000; C. F. Williams, builder, 2816 W. 46th.

John A. Ecklund, 4054 Blaisdell av., is building a duplex, plaster veneer, modern, \$6,500, at 3029 Humboldt, concrete foundation, hot water heat; also a frame dwelling, 4130 Wentworth and dwelling, 4028 Pleasant; modern, frame.

\*O. F. Algoren, 2533 Chicago av., has the brick and cut stone contract, Olson Earl Undertaking Co., 1731-33 E. Franklin; A. A. Swan, general contract, 2-story, stores and flats, garage, Twin City press brick.

\*Rose & Harris, engineers, Auditorium block, have prepared plans for heating, warehouse, conduit system, Minneapolis Thresher Co., Hopkins, and are taking bids until May 7.

W. M. Crawford & Co., 14 S. 4th st., general contractors, are putting in a new store front, making alterations, with balcony, at 715 Nicollet, for L. Oestreicher, 1625 N. 6th.

H. N. Leighton & Co. have the contract for the interior finish of the Sixth Church of Christ, scientist, and have started work; W. O. Hartig has the electrical contract.

Pike & Cook Co., general contractors are building concrete area walls and slab for area under sidewalk for Winston, Harper, Fisher Co., 119 N. 4th st.

Kees & Colburn, architects, Donaldson block, have the figures in on addition to home for the aged, Little Sisters of the Poor; brick, modern, fireproof; \$50,000.

Raising \$100,000 for maternity hospital before June 1, has been started; Mrs. F. C. Nickels, president, 2201 Western av.; modern structure, 50 rooms, planned.

\*F. W. Kinney completed plans this week for the Montivedeo bank; C. H. Budd, owner; brick, stone, vacuum heat, three vault doors, \$6,000.

\*Kirby T. Snyder, architect, Plymouth building, has been selected as architect for a school at Baudette, Minn.; details later.

A frame duplex is being built by Jacob Price, 410 Emerson av. N., at N. Emerson; day labor, 26x46, \$4,000, modern, concrete and stone foundation.

Phi Delta Chi will build a chapter house near the university; over \$3,000 raised; Dean F. J. Wulling, college of pharmacy, interested.

Permit issued to H. H. Placke for the 6-flat, brick, \$25,000, 2206 S. Irving; plans by John V. Koester, architect, 600 Lumber Exchange.

A duplex will be built by M. F. Schultz, 727 NE. 5th, at 1010 Plymouth av., 26x44, plaster veneer, concrete foundation, \$3,000.

Open air school will be built on playground, 14th av. S. and 38th.

## ST. PAUL, MINN.

404 Scandinavian American Bank Building.

Phone: N. W. Cedar 1683.

Mail or telephone news not later than Wednesday.

Items marked with asterisks not run in Daily Sheets.

### BUILDING PERMITS.

Joe Valoux, 7th and Reaney, 1½-story frame dwl., Nebraska near Dale; Aug. Prohovsky, builder.....	2,200
Emil Carlson, 676 Magnolia, 1½-story frame dwl., Earl near Orange; G. A. Mattson, builder.....	2,600
G. A. Johnson, 1036 Desoto, 2-story frame duplex, Cook near Arkwright; G. A. Mattson, builder.....	3,200
Erick Standloff, builder, 1263 Seminary, 1½-story frame dwl., Juno near View.....	2,400
John H. Lauer, builder, 232½ Western av. S., 2-story brick veneer dwl., Arbor near James.....	4,000
G. M. Dow, 505 Selby, 2-story frame dwl., Van Slyke near Horton; Otto Steinberg, builder.....	5,400
Mrs. Russell Smith, 1½-story frame dwl., Seminary near Griggs; Home Building Co., builders.....	2,800
Oscar R. Person, builder, 1562 Hague, 2½-story frame dwl., Laurel near Saratoga.....	5,500
Napoleon Belisle, 2-story frame dwl., Ottawa near King; John L. Wilson Co., builders.....	3,650

Peter Reilly, 1-story frame dwl., W. 7th near Montreal; John L. Wilson Co., builders.....	2,250
Nell Thomas, 1-story frame dwl., Conway near Cypress; John L. Wilson Co., builders.....	2,550
M. J. Meagher, 1½-story frame dwl., Pascal near Franklin and Como; Eugene Schmidt, builder.....	2,000
Chas. Beechhofer, builder, 1010 Germania Life bldg., 2½-story brick dwl., Summit near Chatsworth; Peter E. Stenger, builder.....	22,000
Mrs. G. W. Akenson, builder, 662 Aurora, 2-story frame duplex, 655-57 Iglehart near Dale; L. A. Papke & Co., builders.....	5,000
Mrs. M. K. Truax, builder, 1457 Fairmount, 1½-story frame dwl., 1498 Fairmount near Pascal.....	2,600
Knox Presbyterian Church, 1-story brick church, Minnehaha near Asbury; Sandberg & Swanson, builders.....	27,000
N. M. Eiden, Stevens Point, Wis., 1½-story frame dwl., Vance near Palace; F. Mersch, builder.....	2,000
Nels Audine, 1½-story frame dwl., Hyde near Buford; Otto J. Husby, builder.....	2,800
Carl Wiman, 2-story frame store and flats, Case near Forest; Claus Lindstrom, builder.....	4,000
Chas. M. Veneil, Minneapolis, 2-story frame dwl., Knapp near Chelmsford; Harry P. Stone, builder.....	3,000
Thore Skonwood, 527 Raymond, 1-story frame dwl., Como near River boul.; Central Warehouse Co., builders.....	2,800
Fred Fitch, 1819 Sheridan, 1½-story frame and stone dwl., Gates near Brown; N. Westby, builder.....	2,000
J. Rutherford, 2-story frame and stone flat (4), Selby near Saratoga and Pascal; Thos. H. Fry, builder.....	6,000
B. H. Ode, builder, 1188 Reaney, 1½-story frame dwl., Minnehaha near Atlanta.....	2,400
Otto C. Skytte, Fisher and Autumn, 1½-story frame dwl., Maryland near Earl.....	2,200
Maurice E. Holm, 1½-story frame dwl., Fauquier near Frank; L. Hughes, builder.....	3,000
Rarrock Security Co., Globe bldg., 2-story plaster veneer flat (4), 1518 Lafond near Asbury; H. E. Rossmann, builder.....	11,000
Rarrock Security Co., 2-story brick and tile flat (4), 724 Hague near St. Albans; L. A. Schak, builder.....	11,500
Alt Norlin, 1927 University av., 1-story frame dwl., Lafond near Aldine; A. H. Heimbach, builder.....	2,000

Alban & Lockhart, architects, Chamber of Commerce, will have plans out Monday for the Maynard, Minn. State Bank; 1-story, brick and cut stone, 38x45, quarter sawed oak finish, fireproof, safety and storage vaults, hot water heating plant, copper covered windows and doors, tar and gravel roof, plumbing and wiring, concrete foundation, plate glass, beam and plaster ceiling, owners will take figures.

A. L. Garlough, architect, Rosen building, is given prominent position and much space in "The Farmer" published by the Webb Publishing Co., St. Paul, for his model farm house plans; several views and full descriptions given, of an attractive and practical dwelling.

St. Paul building permits again showed a large increase the last month; the total for April, 1913, being 342 valued at \$926,150; April, 1914, 374 permits, aggregating \$1,204,759. The increase is over 23 per cent, or \$278,609.

L. A. Papke & Co., 817 Aldine st., has contract for a frame dwelling for Mrs. M. K. Truax, 1447 Fairmont, modern, hot water heat; frame duplex, 665 Iglehart, for G. W. Akenson, 662 Aurora, modern, hot water heat.

H. A. Miller, architect, Pittsburgh building, is preparing plans for a modern dwelling, Austin, Minn., for Mrs. W. H. Albertson, Austin, 2-story, frame and stucco, fireplace, hot water heat, 36x24, sleeping porch.

A. Moorman & Co., are preparing plans for an artistic print shop at Marshall, Minn., for the News-Messenger; persian brick, weather timber, Spanish tile overhanging roof, casement windows.

About \$100,000 will be spent by Aarock Security Co., 506 Globe building, in constructing nine buildings, Hague and Grotto; four dwellings, five 4-flats; Henry C. Peterson, president Aarock Co.

A store and flat is being built by Carl Wiman, 934 E. Lawson, on Case between Forest and Mendota, a 2-story frame, 24x52, modern, hot water heat; Claus Lindstrom, builder, 1553 E. 7th.

H. A. Miller, architect, Pittsburgh building, has plans in progress for a 4-room brick school at Plato, Minn., steam heat, plumbing, heating, wiring, plans ready June 1; address architect.

Buechner & Orth, architects, Shubert building, have the plumbing, heating and wiring out on Maxfield & Cathcart building and figures are being taken no time set.

A 4-flat will be built at Selby and Saratoga, by J. Rutherford, 2-story frame and stucco, hot water heat, modern, 54x35; Thomas H. Fry, builder, 1400 Selby.

Several dwellings are being built by the Central Warehouse Co., on Wentworth between Duane and St. Anthony, frame, 26x42, 1-story.

Bids will be in Tuesday on Swedish Baptist conf. seminary, brick, modern; plans by J. O. Cederberg, architect, Endicott building.

Wm. Butler, Butler Bros., N. Y. Life bldg., will build large modern residence at Summit and Floral, cost \$15,000; plans not announced.

Bids are being taken till May 15, for the addition to crippled children's hospital; Phalen Park, \$60,000; 100 beds.





# HOTEL RADISSON

MINNEAPOLIS, MINNESOTA

**T**HE most complete hotel from the standpoint of architectural and engineering science.

The tallest, reinforced concrete building in the Twin Cities.

The only hotel in the Twin Cities that has complete high pressure steam generating plant, refrigeration plant, vacuum cleaning plant, air compressors and deep well pump, thermostatic heat control system, ventilating plant with air washers and thermostatic heat control on heating coils, complete laundry plant, electric maids' signal system, seven electric traction type, high

speed elevators, incinerator plant, master and secondary clock systems, automatic fire alarm system, circulating refrigerated drinking water system in every guest room, construction cost 43 cents per cubic foot.

Has the most popular and up to date dining room in the Twin Cities.

## CHATEAU ROOM

(A tribute to the French)

## VIKING ROOM

(A tribute to the Scandinavian)

## TECO INN

(A tribute to the American)

The Radisson Hotel is essentially a man's hotel, aiming to cater to man's daily needs. Popular prices prevail in all departments.

This hotel is the only modern hotel in the Twin Cities under the direct management and supervision of its owners.

B. J. Taylor, architect, 367 Prior, is preparing plans for undertaking parlors, 174 W. 4th., Donnelly & Sons, \$3,000.

Bohemian Methodists will build a church on lot purchased, Jefferson near W. 7th; \$10,000 to \$12,000.

## HEAD OF THE LAKES

Office: 206 Manhattan Building. Telephone: Auto 3036.  
Mail or telephone news not later than Wednesday.

*Items marked with asterisks not in Daily Sheets.*

### DULUTH.

E. Paulson is building a frame house on 4th st. between 48th and 49th avs. W. to cost \$3,500; P. Fuller will build a frame dwelling to cost \$4,000 on Kenilworth av., and J. Curran a frame house on Woodland av., to cost \$3,500.

A large force of men being employed by American Bridge Co. and other contractors on steel ore dock at 34th av. W. for Duluth, Missabe & Northern Ry., estimated to cost \$2,000,000, and to be completed this fall.

Bids opened May 5 for building to be known as Unorganized school No. 45, 2-room structure with living apartments for teacher, near Angora, cost \$4,500; L. A. Ink, principal; N. A. Young, county superintendent.

Northern Cold Storage & Warehouse Co. will build 7-story reinforced concrete addition to its plant; 85x130; cost \$120,000; contract to McLeod & Smith for foundation, general contract later.

The Lakeside Land Co. advises that the present season to date has been the most active in its experience. It now has seven houses under erection in that section of the city.

The general contract for a brick flat building for Mrs. Margaret Melville, at 19th av. E. and 4th st. has been let to Frank L. Johnson & Co., plans by Edward P. Shurick.

N. J. Upham, president International Realty Associates, announces contract let for grading new Waverly Park addition; sewers will also be installed.

The Esmond ohtel damaged by fire to amount of \$4,500; said that the tiled floor saved it from complete destruction; Michael Rachlin, manager.

The Hoopes-Kohagen Co. has let contract for grading and sewer work new Park drive.

Holstead & Sullivan, architects, have plans out for figures

for a brick and frame residence for Geo. Brozich of Ely, Minn.

City is in the market for an automobile, bids to be in by May 8; address Robt. Murchison, commissioner.

About 75 per cent of the new comers said to be seeking homes in the new steel plant district.

Y. M. C. A. board favors branch in the West End.

### SUPERIOR.

Belt Line elevator burned; loss \$200,000; Cargill Elevator Co., owners.

John Donlin, local contractor, got the construction of the South Side school, Virginia, Minn.

Bidders for paving on Tower av. were low as follows: Walsh & Johnson, concrete, \$55,372; same, creosoted blocks, \$88,623; Fielding & Shepley, St. Paul, sheet asphalt, \$76,511; same, asphaltic concrete, \$71,602.

## MILWAUKEE, WIS.

Office: Hathaway Building: Telephone Main 1827.  
Mails news to Minneapolis office not later than Wednesday.

Architects Herbst & Hufschmidt are taking bids on a duplex flat for Wm. Evert at 578 5th av.; brick veneer, 2-story and basement, 24x55, tile flooring, hot water heating; plate and art glass; also bids on duplex flat for Adam Schroeder at 612 2d av.; frame and stucco, 24x48, 2-story and basement, cement block foundation, hot water heating, art and plate glass, cypress finish; have awarded on store and flat of Geo. Balauf at 35th st. and North av.; excavating, G. Graff; carpenter, Geo. Memmel; mason, State Concrete Block Co.; cut stone, Peter Schmidt; plaster, August Kringel; sheet metal, Klippel & Arzberger; iron work, Milwaukee Structural Steel Co.; plumbing, Jacob Schuh; heating, Edwin Netz; roofing, South Side Roofing Co.; also for building at 64 Locust st., for Random Lake Ice Co.; cement, O. H. Bossert; sheet metal, F. J. Romberger; plumbing, L. Schmidt; painting, J. Mueller.

Architect C. Hosmer has awarded on residence and garage for F. J. Olsen in Woodlawn Court: Carpenter, Bert Bergmann; mason, Paul Nagtegaal; concrete and cement, Minnehan & Jacobus; inside plaster, Chas. E. Bartz; exterior plaster, H. W. Johns-Manville Co.; sheet metal, E. B. Tonnson; plumbing, O. H. Dittmer; heating, J. R. Blodgett; electrical, Callen & Poehlman. Preparing plans for a store, office



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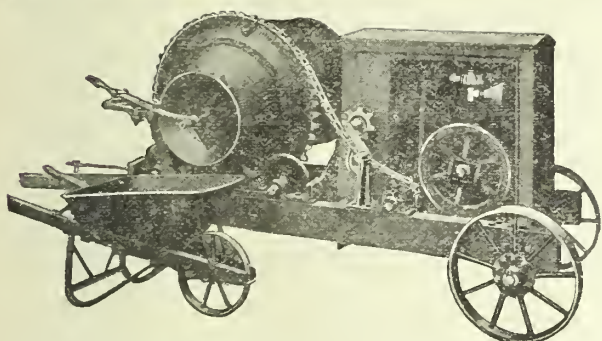
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BOTH PHONES

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and flat for Peterson & Jackowska-Peterson on 5th av., north of Mitchell st.; tile and brick, 3-story and basement, 300x100, first story veneer, to contain stores; second, plaster, to contain offices and flats and flats on third; incinerator, steam or hot water heat.

Architect John Roth, Jr., is taking bids on a residence in North Milwaukee; brick veneer, 2-story and basement, 28x48, hot water heating, septic tank, private water system; costing \$6,000. Preparing plans for a four-family flat at 37th and Vine sts., brick veneer, 2-story and basement, 48x40, furnace heating. Awarded additional contracts on factory on North Water st.: Carpenter, Adam Klug; plaster, George Kissner; sheet metal, Schumann & Roden; plumbing, Lindeman & Schumann; painting, John Schultz.

The board of public works is taking bids on the following work: Delivering 12,500 tons of coal to the North Point Pumping Station, bond of \$14,400 or certified check for \$7,200, bids closing May 5; constructing a system of distributing wells, tunnels and gate wells east of North Point Pumping Station, bond of \$7,500, bids closing May 8; delivering 1,000 tons of coal at High Service Pumping Station, bond of \$1,150, closing May 5. Fred G. Simmons, commissioner of public works.

Architect Edward Kozick is taking bids on a bungalow on Holton st., between Chambers and Locust sts.; frame, brick foundation, 26x50, brick mantel, hot water heating, asphalt roof, art and plate glass. Has awarded on residence for Mrs. Johanna Daglen on 4th st. near Washington blvd.: Carpenter, H. C. Lutz; mason, Schmidt & Fehst; plumbing, Peter Jensch; also on floor for Gutsch Brewing Co. addition at Sheboygan; cork insulation, H. W. Johns-Manville Co.

Architect R. E. Oberts has awarded additional contracts on a bakery for Mr. Reif at Buffum and Burleigh sts., sheet metal, E. B. Tonnsen; electrical, Puehler-Gauerke Co.; roofing, J. W. Krock. Have awarded on addition to Miller building at 11th and National: Carpenter, Anton Bax; mason, Esau-Kroening Construction Co.; plaster, Baumann; sheet metal, Miller Bros.; electrical, Herman Andrae; roofing, Winding & Gezelschap.

sts.; 1 and 2-story, 50x150, tile and marble, cut stone, iron

Architects Kirchoff & Rose have awarded additional on business block at 382 East Water st., the plaster to Ernst Jahn and electrical to Koschin. Are taking bids on a motion picture theater for Colonial Amusement Co., at Vliet and 15th

and steel, steam heating, composition roof, monolith, etc., bids.

Architects Brust & Phillip have completed plans for a residence for A. F. Gallun at Lake Drive and Newberry Blvd.; stone and tile, 3-story and basement, 80x150; mason and concrete bids being taken; cost, \$120,000. Have awarded on St. Joseph's Convent chapel at 22d and Greenfield avss., the mason, concrete and cement to Paul Riesen & Sons.

Architects Leenhouts & Guthrie have awarded on residence for R. M. Thayer at 7th av. and Lake st., Wauwatosa: Carpenter, H. Seifert; mason, A. G. Taddy; plaster, F. W. Baumann. Have awarded on addition to Endeavor Academy, Endeavor, the general contract to H. P. Knudson of Wauwata; 3-story and basement, 46x63; brick.

Architects Wolff & Ewens will be ready for figures shortly on plans for a store and office building for the Fred Miller Brewing Co., 5th st. and Grand av., 142x204, 2-story, 12 stores first floor, office and apartment second floor; white glazed terra cotta exterior, probably theater in rear, canopy entrance on Grand av.; cost \$400,000.

Architects Leiser & Holst are taking bids on a duplex for Otto Hahn on Concordia av., between Island av. and 1st st.; 2-story and basement, 29x53, hot water heating, art and plate glass; also bids on a duplex for H. Wussow, Jr., on Concordia av. near 1st st.; 2-story and basement, 29x53, hot water heating, art and plate glass.

Architect L. M. Gurda takes bids after May 1 on a duplex for Frank Buscynski at Chase and Grove sts.; frame, cement block foundation, hot water heating, art glass, 24x50; also on a bungalow for E. W. Schumann at East Milwaukee; frame and stucco, concrete block foundation, 26x34, hot water heat, asphalt shingle roof.

The Wisconsin-Panama Exposition Commission, D. E. Bowe, secretary, 709 Germania building, is taking bids until May 16 for the construction of the Wisconsin building at the exposition grounds at San Francisco, Cal.; plans by Architects R. Messmer & Bro., Milwaukee. Check for 5 per cent. Bids on whole work only.

R. P. Hansen Co., general contractor, 529 26th av., has awarded on bungalow at 42d and Vliet sts.; mason, L. Frahm Co.; plaster, Bartsch Bros.; plumbing, Wm. Zentner; electrical, Peter Madsen; painting, Aug. Dellmann; lumber, Bentley Lumber Co.; interior finish, Pederson & Grobden.

Architects Schnetzky & Son have awarded contracts on the

(Continued on page 25)



# PROPOSAL ADVERTISING FOR BIDS

## PROFESSIONAL DIRECTORY

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Dickinson, N. D.

OFFICIAL ADVERTISEMENTS for proposals will be published in this department on receipt of copy with order from authorized official, building committee, architect or engineer.

**RATE FOR NOTICES** In this department—15c per line each insertion. No discounts allowed. Several insertions are customary to insure full and fair competition.

**PRINTED SLIPS** are furnished to officials, architects and others interested, for distribution by them, without extra charge.

**PROFITABLE INVESTMENT**—It has been the experience of those who have used this medium that by investing a few dollars they have saved hundreds.

**COPY RECEIVED** up to Friday, 10 a. m., will be published in the paper, delivered to subscribers on Saturday, but should reach the publication office, Lumber Exchange, Minneapolis, earlier in the week, when possible.

**LATE NOTICES** Friday morning can be transmitted by long distance telephone.

**NOTICE TO CONTRACTORS.**  
Proposals for Church Building for First Presbyterian Church.

Crookston, Minn., April 8, 1914.

Sealed proposals addressed to Dr. R. C. Bailey will be received until 3 o'clock P. M., on May 5, 1914, at Crookston, Minnesota, for four (4) separate bids for material and labor necessary for the construction and finishing of the church building for the First Presbyterian Church of Crookston, Minn., as follows:

- General Contract for building.
- Contract for Heating and Ventilating.
- Contract for Plumbing.
- Electric Wiring.

Plans and specifications are on file and may be examined at the following places: B. D. Keck, Architect; the Manse, Rev. R. C. Bailey, D. D. Chairman; the office of C. C. Strander, Secretary of Building Committee, Crookston, Minnesota, and the Builders' Exchange, No. 17 South 6th St., Minneapolis, Minn.

Proposals must be made according to the copies of forms attached to the specifications, filling out the alternate proposals, indentifying the outside of envelopes as "bids for Presbyterian Church" and addressed to Dr. R. C. Bailey.

A certified check for 5 per cent of the total amount of the proposal, made payable to C. C. Strander, Secretary of Building Committee, must accompany same as a guarantee that the bidder, if successful, will execute contract and furnish approved bond as required. Failing in this, said check to be forfeited. The right is reserved to reject any and all bids.

The First Presbyterian Church of  
Crookston, Minn.  
By R. C. BAILEY, Chairman.  
BERT D. KECK, Architect.

(Continued on page 16.)

## PROFESSIONAL DIRECTORY

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**NOTICE TO ROAD CONTRACTORS.****International Falls, Minn.**

Notice is hereby given that sealed bids will be received by the County Auditor of Koochiching County at his office in International Falls, Minn., on the 8th day of May, 1914, on or before 2:00 P. M., for the construction of State Rural Highway No. 5, in whole or in part. Total length 22.23 miles, total estimated cost \$25,661.17.

All work must be constructed according to the plans and specifications on file in the office of the County Auditor and State Highway Commission. All bids must be accompanied by a certified check for at least 5 per cent of the bid, and made payable to the Auditor of Koochiching County, as a guarantee of good faith.

Bidders will be required to make their bids on formal proposal blanks furnished by the County Auditor.

The successful bidder will be required to enter into contract with the County of Koochiching, and must be prepared to give good and sufficient bond for the faithful performance of his contract.

The right is reserved to reject any and all bids.

Dated International Falls, Minn., April 13, 1914.

L. H. SLOCUM,  
County Auditor, Koochiching County,  
Minn.

L. A. OGAARD,  
Engineer.

**CHURCH ADDITION.****Fairfax, Minn.**

Proposals for rebuilding the First M. E. Church and adding an addition at Fairfax, Minn., will be received at the First National Bank at Fairfax, Minn., until 2:30 o'clock P. M., Monday, May 4, 1914.

Plans and specifications for same are on file at the Builders' Exchange rooms at Minneapolis and St. Paul; at the First National Bank at Fairfax and at the office of C. A. Boehme, Architect, 502 Kansas Block, Minneapolis, Minn.

A certified check for \$500, made payable to the Treasurer of the First M. E. Church, Fairfax, Minn., must accompany each proposal. Right is reserved to reject any or all bids.

Building Committee,  
E. F. SELL, Chairman.

**NOTICE TO CONTRACTORS.****School, Maddock, N. D.**

Sealed bids will be received up to one o'clock P. M., May 25, 1914, at Maddock, Benson County, North Dakota, for the erection and completion of a ten-room, brick school house for Viking School District No. 9 at Maddock, Benson County, North Dakota.

All bids must be addressed to I. J. Hauge, Clerk of said School District, at Maddock, Benson County, North Dakota, and must be marked "Bids for School House."

Each bid must be accompanied by a check of \$500.00, in favor of Albert Hesla, President of the School Board, as good faith to enter into contract and furnish satisfactory bond for double the amount of the contract price.

After the said bond is approved and accepted by the School Board, the check will be returned to the contractor.

Heating and ventilating bid and plumbing bid must be tendered separately from the general bid. The bond must be in the same proportion as the General Bid and the contract. Certified check for \$100.00 must accompany each bid.

The Board reserves the right to reject any and all bids.

Plans will be on file from April 23, at the Clerk's Office at Maddock, North Dakota; at the Builders' Exchange at Grand Forks, North Dakota; at the Builders' Exchange at Fargo, North Dakota, and at the Builders' Exchange at Minneapolis, Minn.

J. W. ROSS & SON,  
Architects.

I. J. HAUGE,  
Clerk.

**BIDS WANTED.****Well, Madison, S. D.**

Sealed bids will be received by the City Commissioners at the City Hall, Madison, South Dakota, up to 8 o'clock P. M., May 11, for the construction of a well thirty feet diameter, twenty-three feet deep, together with appurtenances.

Plans and specifications may be obtained of Chas. A. Trimmer, City Engineer, by depositing \$5.00, same to be refunded upon return of plans and specifications.

Check for \$300.00 to accompany bid. Commissioners reserve the right to reject any or all bids.

GEO. H. WASKEY, Mayor.  
WM. RAE, City Auditor.

**BRIDGE.****Hastings, Minn.**

Sealed bids will be received at my office in the City of Hastings, until 10 o'clock, A. M., on Tuesday the 12th day of May, 1914, for furnishing all material and erecting a steel pin connected truss span in section 21, Ravenna Township, Dakota County, Minnesota, known as State Bridge No. 740, located on State Road No. 10.

The Superstructure will be 150-foot span, 16-foot roadway and the work does not include building of abutments or any part of the substructure and does not include the furnishing of reinforcing bars for, nor building the concrete floor.

Plans and specifications may be seen at my office or at the State Highway Commission at St. Paul, or will be mailed to builders upon request.

Each bid must be accompanied by cash or a certified check for 5 per cent of the bid, payable to me, and all bids must be upon the regular State Highway Commission forms.

The committee reserves the right to accept or reject any proposal.

For the Committee,  
P. A. HOFFMAN,  
County Auditor,  
Hastings, Minn.

**LADIES' GYMNASIUM.****University of Minnesota, Minneapolis, Minn.**

Sealed proposals will be received by the State Board of Control until 2 P. M., Monday May 11, 1914, at their office in the State Capitol Building, St. Paul, Minn., for the erection and completion of the Ladies' Gymnasium Building, at University of Minnesota, Minneapolis, Minn., including the general contract work, heating and ventilating, plumbing and electrical work, in accordance with plans and specifications furnished by C. H. Johnston, Architect, 715 Capital Bank Building, St. Paul, Minn. Bids will be received collectively and separately. Bids to be submitted only on form of bid supplied by the Architect; no other form will be considered. Bids to be accompanied by a certified check for 4 per cent of the amount of the bid, payable to State Board of Control, which check will be re-

turned when building contract is executed.

Copies of above plans and specifications may be seen at the office of the State Board of Control, State Capitol Building, St. Paul; at the office of Geo. H. Hayes, Comptroller, University of Minnesota, Minneapolis, Minn., and at the St. Paul and Minneapolis Builders' Exchanges.

Extra copies of the plans and specifications may be obtained on Application to the architect on payment of cost of duplication. Successful bidders must furnish the board with a surety company bond in 75 per cent of the amount of contract. The right is reserved to accept or reject any or all bids.

**BRICK CHURCH BUILDING.****Plato, Minn.**

The undersigned hereby gives notice that sealed proposals for the erection of a brick church building to be erected at Plato, Minn., for the Evangelical Saint Paul's congregation, including all labor and material, will be received by the Building Committee until the hour of 11 a. m., on the 22d day of May, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by Albert Schippel, architect of Mankato, Minn., which may be seen at the office of the architect at the Builders' Exchanges of Minneapolis and St. Paul, Minn., and may also be seen on application to Minder Mercantile Co., General Store at Plato, Minn.

A certified check for 10 per cent, payable to the order of F. M. Graupmann, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the sum of full amount of his contract for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed) F. M. GRAUPMANN, Chairman.

ALBERT SCHIPPEL, Architect.  
Place, Mankato, Minn.  
Date, April 21, 1914.

**SCHOOL BUILDINGS.****Sioux Falls, S. D.**

Notice is hereby given that sealed bids will be taken by the undersigned for the material and labor necessary for the erection of a fireproof school building to be known as the Bishop Hare Memorial for All Saints School at Sioux Falls, So. Dak. Proposals will be received by mail not later than ten o'clock, A. M., of May 21, 1914, and should be addressed to Bishop Biller at Sioux Falls, So. Dak.

All bids must be in strict accordance to the plans and specifications as prepared by Robert Perkins, Architect. Plans are on file at the Builders' Exchange at Minneapolis, and copies of same may be procured by addressing Bishop Biller.

Bids will include, Heating, Ventilating, Plumbing and Electric wiring, the contract to be of a general form.

A certified check for 3 per cent payable to Bishop Biller shall accompany each bid as a guarantee, the same to be immediately returned to the unsuccessful bidders upon letting of contract.

The right is reserved to reject any or all bids.

Signed, BISHOP BILLER,  
Per R. A. P.

(Continued on page 20.)



# CONTRACTORS BONDS AND EMPLOYERS LIABILITY INSURANCE

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## PROPOSAL ADVERTISING FOR BIDS

### NOTICE TO ROAD CONTRACTORS.

Le Sueur Center, Minn.

Sealed bids will be received at the County Auditor's office of Le Sueur County, at Le Sueur Center, Minn., until Two O'clock, May 7, 1914, for construction of State Highway, being County Job No. Two, being of a total length of 6.10 miles, consisting of the following:

16,273.80 cubic yards grading.

14,660.00 lineal feet turnpiking.

3,182.90 cubic yards graveling.

At a total estimated cost of \$6,278.04.

Plans and specifications may be seen at above named office or at the office of the State Highway Commission at St. Paul.

Each proposal must be accompanied by cash or certified check for not less than 5 per cent of the amount of the bid, payable to the County Treasurer of said County.

All bids must be in accordance with instructions to bidders and upon the blank forms furnished by J. W. Hruska, District Engineer, at Le Sueur Center.

The County Board reserves the right to reject any or all bids.

J. H. KAISERSATT,  
County Auditor.

### CHILDREN'S HOSPITAL.

Phalen Park, Minn.

Sealed proposals will be received by the State Board of Control, in their office at the State Capitol Building, at St. Paul, Minnesota, until 2 P. M., Friday, May 15, 1914, for the additions to Crippled Children's Hospital, Phalen Park, Minn., including the general contract work, heating and ventilating, plumbing and electrical work, in accordance with plans and specifications furnished by C. H. Johnston, Architect, 715 Capital Bank Building, St. Paul, Minn. Bids will be received collectively and separately. Bids to be submitted only on form of bid supplied by the Architect; no other form will be considered. Bids to be accompanied by a certified check for 4 per cent of the amount of the bid,

payable to Minnesota State Board of Control, which check will be returned when building contract is executed.

Copies of above plans and specifications may be seen at the office of the State Board of Control, State Capitol Building; Crippled Children's Hospital, Phalen Park, Minn., and at the St. Paul and Minneapolis Builders' Exchanges.

Extra copies of the plans and specifications may be obtained on Application to the architect on payment of cost of duplication. Successful bidders must furnish the Board with a surety company bond in 75 per cent of the amount of contract. The right is reserved to accept or reject any or all bids.

### SALE OF DITCHING JOBS.

Notice is Hereby Given, That, on the 8th day of May, 1914, at 10 o'clock a. m., at the Auditor's office in the Village of Aitkin, Minnesota, I will sell the jobs and let the contracts for digging and constructing the Ditch No. 20 of Aitkin County, established by the Board of County Commissioners of Aitkin County, State of Minnesota, by their order bearing date April 13th, 1914, viz: In one job and contract, or in sections of 100 feet each, each of said sections to be known and numbered by stakes, as shown by the report of the Engineer in said matter, commencing at the one including the outlet, and from thence, successively, up stream to the one including the source; which ditch contains the approximate amount of work following, viz:

Main ditch 1 to 1 slope, cut average 4 ft. bottom width 4 ft., top width average 15 ft., cubic yards, 195,973. Branches and Laterals same as above in cut, width and top, cubic yards 713,157, total 909,130, and the estimated cost of which ditch is 10c per cubic yard or Ninety Thousand Nine Hundred Thirteen (\$90,913) Dollars, to the lowest responsible bidder or bidders, and that bids are invited for said work as one job, and also for any one or more sections thereof; said work to be completed within the time required, and in the manner specified, in said Engi-

neer's report. And no bid will be entertained which exceeds more than thirty (30) per cent. over and above the estimated cost of the construction of the part of said work covered by such bid; and the successful bidder will be required to give a satisfactory bond in a sum not less than the contract price, to be approved by the Auditor of said County, with two freehold sureties, for the faithful performance and fulfillment of his contract, and to pay all damages that may accrue by reason of his failure to complete the job within the time required in the contract. The said order and estimates and profile are on file, and may be seen at my office.

All bids must be accompanied by a certified check payable to the Auditor of said County, for not less than ten per cent of the amount of each bid.

The right to reject any and all bids is hereby reserved.

Dated, April 15th, 1914.

J. B. LEMIRE,

County Auditor, Aitkin County, State of Minnesota.

(Seal)

J. H. BAUGH, Engineer,  
Warren, Minnesota.

### BIDS ON CHURCH.

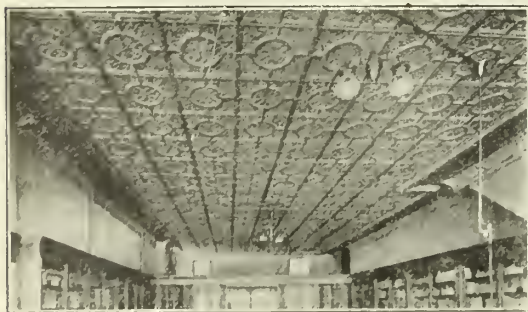
Watertown, S. D.

The Building Committee of the First Methodist Episcopal Church, Watertown, South Dakota, ask for sealed bids for new church building and bids delivered to J. W. Dougherty, Chairman, Watertown, S. D., on or before 12 o'clock noon, Monday, May 18, 1914.

Plans may be obtained of the Architect, Harry W. Jones, Lumber Exchange, Minneapolis, or of J. W. Dougherty, Chairman, Watertown. A deposit of \$10 will be required, which will be refunded upon return of plans.

Copies of plans will be on file at Builders' Exchange, in Chicago and Minneapolis, for reference.

(Continued on page 17.)



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and Ornament Co.**  
ST. PAUL, MINN.



**GAS MAIN.  
Hopkins, Minn.**

Bids will be received by the Village Council of the Village of West Minneapolis up to May 5, 1914, at 7 o'clock P. M., of that day, for the laying of an eight-inch cast iron gas main from Excelsior Avenue to the gas plant in said West Minneapolis.

E. A. CLOSE,  
Recorder.

**NOTICE TO CONTRACTORS.  
Creamery, Silver Lake, Minn.**

Notice is hereby given that the Silver Lake Creamery Company will receive bids for the construction of a creamery building at Silver Lake, Minnesota.

Bids will be received up to Wednesday, the 6th day of May, 1914, at 1 o'clock p. m., at the city hall in Silver Lake, Minnesota.

All bids must be accompanied by a certified check for 5 per cent of amount of bid. The successful bidder must furnish a surety bond for the full amount of bid.

Plans and specifications may be seen at the Creamery in Silver Lake, Minnesota.

The Silver Lake Creamery Company hereby reserves the right to reject any or all bids submitted.

J. J. DRAHOS,  
Chairman Building Committee.  
JOHN KASPER,  
Secretary.

Dated at Silver Lake, Minn.,  
April 22, 1914.

**PROPOSALS FOR THREE HOSPITALS**  
Department of the Interior, Office of Indian Affairs, Washington, D. C., April 13, 1914. Sealed proposals, plainly marked on the outside of the sealed envelope: "Proposals for Hospitals, Cheyenne River, Rosebud and Standing Rock Indian Reservations, North and South Dakota," and addressed to the "Commissioner of Indian Affairs, Washington, D. C.," will be received at the Indian Office until 2 o'clock p. m., on May 21, 1914, for furnishing materials and labor for the construction of a frame hospital on the Standing Rock Reservation, North Dakota, and brick hospitals on the Cheyenne River and Rosebud Reservations, South Dakota, in strict accordance with the plans, specifications and instructions to bidders, which may be examined at the office of the paper or periodical in which this advertisement appears, the U. S. Indian Warehouses at Chicago, Ill., St. Louis, Mo., Omaha, Neb., and San Francisco, Cal.; the Builders' Exchanges at St. Paul, Minn., and Aberdeen, S. D., and at the several Schools. For further information apply to the Superintendents of the Cheyenne River Indian School, Cheyenne Agency, South Dakota, Rosebud Indian School, Rosebud, South Dakota, and the Standing Rock Indian School, Fort Yates, North Dakota. CATO SELLS, Commissioner.

**NOTICE OF RECEIVING BIDS FOR  
RESERVOIR ROOF, AT INDEPENDENCE, WISCONSIN.**

Sealed bids to be directed to Jacob Jackson, Clerk of the Village of Independence, Wisconsin, will be received until eight o'clock P. M., of May 14th, 1914, for a reservoir roof, according to the plans and specifications prepared by George P. Bradish of La Crosse, Wis.

Plans and specifications can be obtained at the office of the Village Clerk at Independence, Wisconsin.

A certified check for five per cent of

the amount of the bid must accompany each bid, payable to the Village Clerk, of said Village, as a guaranty of good faith that the bidder will enter into contract if contract is awarded. The Village Board of said Village reserves the right to reject any and all bids.

All bids must be sealed and addressed to the Village Clerk of Independence, Wisconsin, with the name and address of bidder on outside of envelope.

Successful bidder will be required to give a bond in the sum of Five Hundred Dollars for the satisfactory performance of the contract. The work must be finished on or before the 15th day of July, 1914.

Dated at Independence, Wisconsin, April 24th, 1914.

JACOB JACKSON,  
Village Clerk.

**DRAINAGE DITCH NO. 28.  
Ivanhoe, Minnesota.**

I will sell the job of contracting Judicial Ditch No. 28, Lincoln County, Minnesota, at my office in Ivanhoe, Minnesota on the 10th day of May, 1914, at 10 o'clock, A. M.

The approximate work to be done is as follows: 2,885 feet of 15-inch tile; 4,115 feet of 12-inch tile; 2,303 feet of 10-inch tile, average depth of drain about 7 feet, greatest depth 9 feet, estimated cost of construction \$2,899.33.

All bids to be accompanied by a certified check for 10 per cent of amount bid.

KARL A. HANSEN,  
County Auditor.

**NOTICE TO CONTRACTORS.  
Greene, Iowa.**

Sealed bids will be received by the Town Clerk of Greene, Iowa, until 7:30 P. M., May 20, 1914, for the construction of the following sewers, disposal plant and outlet sewer. Certified check of \$200.00 for disposal plant and outlet sewer and \$500.00 for sanitary sewers required.

1720 feet of 10-inch sewer.

680 feet of 8-inch sewer.

5 manholes.

1 flushtank.

4 lampholes.

Disposal plant complete.

400 feet of 12-inch outlet sewer.

LE ROY NILES,  
Town Clerk.

M. Tschirgi & Sons,  
Cedar Rapids, Iowa,  
Engineers.

**NOTICE TO CONTRACTORS.  
High School, Garner, Iowa.**

Sealed bids will be received for the construction of a high school building at Garner, Iowa, until May 22, 1914. For particulars regarding plans and specifications write J. N. Spöle, President, Garner, Iowa.

**NOTICE TO CONTRACTORS.  
MASONIC TEMPLE,  
Willmar, Minn.**

The undersigned hereby gives notice of the sealed proposals for the erection of a Masonic Temple, to be built in Willmar, Minn. Bids are to be opened by the building committee on the eleventh day of May, 1914, at 2:00 P. M. All bids must be in strict accordance with the plans and specifications prepared by J. E. Nason, No. 622 Corn Exchange, Minneapolis, Minn. A certified check of \$300.00, payable to Russell Spicer, must accompany each bid as a guarantee to enter into contract and furnish a satis-

factory bond for the faithful performance of the contract.

Plans can be had at the architects, or of Russell Spicer, Willmar.

All bids should be addressed to Russell Spicer, Willmar, Minn. The right is reserved to reject any or all bids.

J. E. NASON.

**SEALED BIDS.**

**Lockup, Sanborn, Minn.**

Will be received at the office of the undersigned by the Village Council of the Village of Sanborn, Redwood County, Minnesota, up to 8 o'clock P. M., of May 18, 1914, for the construction and completion of a Village Lockup, according to the plans and specifications on file in the Office of the undersigned.

A certified check of \$300.00 (dollars) must accompany each bid, as a mark of good faith. Plans and specifications may be inspected at the office of the Architect, F. W. Kinney, 1003-4, Plymouth Bldg., Minneapolis, Minn., or at the office of the undersigned.

The board reserves the right to reject any and all bids.

By order of the Village Council.

D. G. KLEIN,  
Village Recorder,  
Sanborn, Minn.

**NOTICE TO ROAD CONTRACTORS.  
Elbow Lake, Minn.**

Sealed bids will be received at the county auditor's office of Grant county, at Elbow Lake, Minnesota, until 10 o'clock a. m., Friday, May 22d, 1914, for construction of County Jobs 1, 2 and 3 on State Roads 1 and 2, consisting of the following:

Job No. 1: Station 0 to 242, total length, 24,200 feet; 10,088 cubic yards grading; 10,550 lineal feet turnpiking; 4,550 cubic yards graveling.

Job No. 2: Station 248 to 584, total length, 33,436 feet, 3,974 cubic yards grading; 24,236 lineal feet turnpiking.

Job No. 3: Station 722 to 909, total length, 18,700 feet; 6,061 cubic yards grading; 8,700 lineal feet turnpiking.

Plans and specifications may be seen at above named office, or at the office of the Highway Commission at St. Paul, Minn.

Each proposal must be accompanied by cash or certified check for not less than 5 per cent of the amount of the bid, payable to the county treasurer of said county of Grant.

Bid will be accepted for the entire jobs or any part or parts thereof.

All bids must be in accordance with instructions to bidders, and upon blanks furnished by the county auditor or the Highway Commission.

The county board reserves the right to reject any or all bids.

Dated April 25, 1914.

O. E. WOLD,  
County Auditor.

**SEALED BIDS,**

**Bank, Isanti, Minn.,**

Will be received by the Security State Bank of Isanti for the erection of a 2-story bank building up to 1 o'clock P. M., May 11, 1914.

Certified check for \$300.00 to accompany bid. Plans and specifications may be seen at office of Kirby T. Snyder, Architect, 749-751 Plymouth Building, Minneapolis, Minn.

The right reserved to reject any or all bids.

SECURITY STATE BANK,  
Isanti, Minn.

(Continued on page 18.)



**Employers' Liability Insurance  
Surety and Fidelity Bonds.**

## FRED L. GRAY COMPANY

THE LARGEST AGENCY OF ITS KIND  
IN THE NORTHWEST

More than 50,000 personal  
injury cases handled for  
contractors and others  
since 1892.

Security Bank Bldg..

MINNEAPOLIS

### NOTICE TO ROAD AND DITCH CON- TRACTORS.

International Falls, Minn.

Notice is hereby given that sealed bids will be received by the County Auditor of Koochiching County at his office in International Falls, Minn., on the 8th day of May, 1914, on or before 2:00 p. m., for the construction of State Rural Highway No. 9, in whole or in part as follows:

Div. A.—Road construction, estimated cost, \$12,265.30.

Div. B.—Ditch construction, estimated cost, \$45,476.85.

Div. C.—Road construction, estimated cost, \$4,450.23.

Div. D.—Road construction, estimated cost, \$16,203.25.

Div. E.—Road construction, estimated cost, \$50,775.02.

Total length 81 miles, total estimated cost \$129,170.65.

All work must be constructed according to the plans and specifications on file in the office of the County Auditor and State Highway Commission.

All bids must be accompanied by a certified check for at least 5 per cent of the bid, and drawn on a State or National Bank within the State, and made payable to the Auditor of Koochiching County, as a guarantee of good faith.

Bidders will be required to make their bids on formal proposal blanks furnished by the County Auditor.

The successful bidders will be required to enter into contract with the County of Koochiching, and must be prepared to

## PROPOSALS

give good and sufficient bond for the faithful performance of his contract.

The right is reserved to reject any and all bids.

Dated International Falls, April 12, 1914.

L. H. SLOCUM,

County Auditor, Koochiching County, Minn.

L. A. OGAARD,

Engineer.

### NOTICE TO CONTRACTORS.

Reinforced Concrete Reservoir at New  
Ulm, Minnesota.

Sealed bids will be received at the City Clerk's office, at New Ulm, Minn., up to 5 o'clock P. M., May 5, 1914, for the construction of a reinforced concrete reservoir, with all piping and appurtenances thereto, all according to plans and specifications on file in the city clerk's office. All bids are to be sealed and marked "Proposal for Reservoir," and accompanied by a certified check in the sum of \$300, payable to the City Clerk, to be forfeited to said city in case the successful bidder fails to enter into contract and furnish satisfactory bond within ten days after the acceptance of his bid. The City Council reserves the right to reject any or all bids.

Dated New Ulm, Minn., April 14, 1914.

(Seal) WM. BACKER, City Clerk.

F. D. MINIUM, City Engineer.

v-h3roadway

(Continued on page 19.)

## Ornamental Iron & Bronze



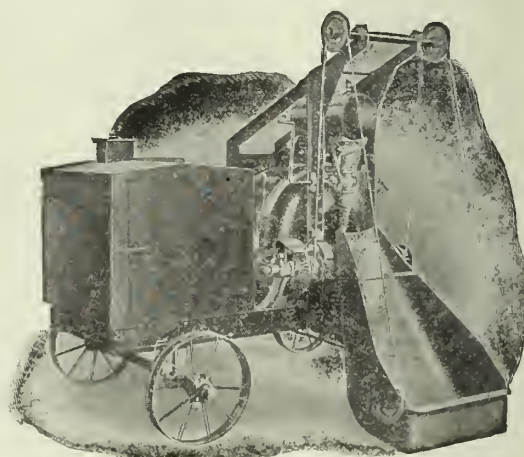
Stairs,  
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Tablets

GATES, GRILLS, FENCING  
FIRE ESCAPES, BANK AND  
OFFICE FIXTURES

**FLOUR CITY ORNAMENTAL  
IRON WORKS** MINNEAPOLIS, MINN.

## Mixer Facts

Every Purchaser of Concrete Mixers Should Know  
the Importance of Thorough and Rapid Mixing, and  
the Durability of the Mixer.



### THE KOEHRING MIXER

See These Machines. Four Different Sizes, Now in  
Stock, at Our Midway Warehouse.

Phone us for appointment today. N. W. Main 330;  
T. S. Annex 330. Get our New Year's Guarantee.

**KOEHRING MACHINE COMPANY**

615-619 Germania Building Milwaukee, Wis.  
N. W. Branch Office, H. B. Jones, Dist. Mgr.,  
349-351 Security Bank Bldg. Minneapolis



**ELECTRIC WIRING.**

State Normal, Mayville, N. D.

Notice is hereby given that bids will be received up to 12 o'clock noon on Friday, May 29, 1914, at the office of the State Normal School at Mayville, North Dakota, for rewiring the main building of the normal school in accordance with plans and specifications prepared by Hancock Bros., Architects, Fargo, N. D., which plans and specifications may be seen after May 1, 1914, at the offices of the architects in Fargo, and at the Builders' Exchange in Grand Forks, N. D. and Minneapolis, Minn.

All bids must be sealed and each accompanied by a certified check for \$250 as a guarantee that the bidder, if successful, will enter into contract. Bids should be addressed and checks drawn to the undersigned.

The Board of Trustees reserves the right to reject any or all bids.

THOS. A. HILLYER, President.

Mayville, N. Dak.

**ELECTRIC LIGHT PLANT.**

Comfrey, Minn.

Sealed bids will be received until seven o'clock P. M., May 4, 1914, by G. W. Schaffer, Village Clerk, Comfrey, Minn., for the erection of a complete Electric Light Plant. Bids will be received on the whole or on separate portions as follows.

- 1st. Brick building.
- 2nd. Oil engines.
- 3d. Electrical equipment.
- 4th. Pole line.

Each bid must be accompanied by a certified check for 10 per cent of the amount bid.

Envelopes must be marked "Bid for Electric Light Plant." Plans and specifications on file at Builders' Exchanges Minneapolis and St. Paul, and office of G. W. Schaffer, Village Clerk, Comfrey, Minn.

W. C. BUCK, Consulting Engineer.  
151 Curtis Court.  
Minneapolis, Minn.

**BOILER, STOKER, ASH LIFT AND NECESSARY PIPING, STATE HOSPITAL FOR INEBRIATES.**

Willmar, Minn.

Sealed proposals will be received by the State Board of Control at their office in the State Capitol Building, St. Paul, Minn., until 2 p. m., Tuesday, May 12, 1914, for boiler, stoker, ash lift and necessary piping, State Hospital for Inebriates, Willmar, Minn., in accordance with the plans and specifications of Charles L. Pillsbury Co., Engineers, 805-811 Metropolitan Life Building, Minneapolis.

Bids are to be submitted only on form supplied by the Engineers. No other form of bid will be considered. Bids are to be accompanied by certified check for five per cent of the amount of bid, payable to the State Board of Control, which check will be returned when contract is executed.

Copies of the above plans and specifications may be seen at the Superintendent's office, State Hospital for Inebriates, Willmar, Minn.; at the Builders' Exchange, Minneapolis; at the Builders' Exchange, St. Paul; at the office of the Board of Control, and at the office of the Engineers. Extra copies of plans and specifications may be obtained on application to the Engineers on payment of cost of duplication. Successful bidder must furnish the Board with a surety bond in 75 per cent of amount of contract. The right is reserved to accept or reject any or all bids.

**NOTICE—SCHOOL BUILDING.**

Oconto Falls, Wis.

Notice is hereby given that sealed proposals for the building of solid brick additions to the High School building in Joint High School District No. 2, Towns of Oconto Falls and Village of Oconto Falls, Wisconsin, including all labor and material, will be received by the School Board of said district up to the hour of 12 o'clock, noon, on Monday, May 18, 1914.

All bids must be in strict accordance with the plans and specifications prepared by Herman Wildhagen, Architect, of Appleton, Wis., which may be had on application to the Architect or the clerk of the School Board.

The contractors shall figure each branch of the work separately as follows, to wit.: Excavating, concrete and mason work, carpenter work, slate roofing, lath and plastering, painting and glazing, plumbing and steam heating and fitting.

Plans and specifications may also be seen at Builders' Exchange, Milwaukee; Builders' Exchange, Oshkosh, and Builders' Exchange, Minneapolis, Minn.

A certified check for two per cent of the amount of the bid, payable to the order of the School Board must accompany each bid as a guaranty, the same to be returned to the unsuccessful bidders immediately on the letting of the contract.

The party to whom the contract is awarded will be required to give a satisfactory bond for fifty per cent of the amount of the contract for the faithful performance of the contract.

The School Board reserves the right to accept any or reject any or all proposals presented.

T. F. REYNOLDS,

Clerk Joint High School District No. 2, Towns of Oconto Falls and Stiles and Village of Oconto Falls, Wisconsin.

**SCHOOL.**

Madison, Minn.

The undersigned hereby gives notice that sealed proposals for the erection of a Parochial School, Madison, Minn., will be received by Rev. Val. Schifferer and the Building Committee until the hour of 8 P. M., on the 12th day of May, 1914. The entire excavation for the building will be done by the Parish.

Plans are on file at the residence of Rev. Val. Schifferer, Madison, Minn., and at the office of E. J. Donohu, Architect, 650 Gilfillan Block, St. Paul, Minn.

A certified check for \$200.00, payable to the order of The Church of St. Michael, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract.

The right is reserved to reject any or all bids.

**NOTICE TO CONTRACTORS.**

Colfax, Wis.

Office of Village Clerk, Colfax, Wis., April 28, 1914. Official publication.

Notice is hereby given that sealed proposals will be received by the Village Board of Colfax, Wis., until 2:00 P. M., of the 11th day of May, 1914, for the construction of a water works system, consisting of a steel tank and tower, tank 40,000 gallons capacity, tower 100 feet from capstone to bottom of tank, drilled well with ten-inch casing 100 feet deep, pump house and accessories, one 15-horsepower geared base oil engine,

pump and accessories, 2,000 feet of 8-inch pipe laid 8 feet deep, 3,000 feet of 6-inch pipe laid 8 feet deep, 600 feet of 4-inch pipe laid 8 feet deep, 12 fire hydrants, check valves, gate valves, etc., all in accordance with plans and specifications therefor prepared by A. T. Thompson, Consulting Engineer, now on file at the office of the Village Clerk.

All bids must be accompanied with a certified check in the sum of 5 per cent of the total bid, made payable to the Treasurer as a guaranty of good faith. Plans and specifications may be seen at the office of the Village Clerk.

No bids will be accepted unless made out on blank forms which may be obtained from the engineer or Village Clerk.

The right to reject any or all bids is reserved and the right to accept any bid is reserved.

O. G. KINNEY, Village President.

C. A. KINNEY, Village Clerk.

**NOTICE TO BIDDERS.**

Heating, Ventilation and Plumbing, Granada, Minn.

Sealed proposals will be received by the Board of Education, District No. 30, Martin County, Granada, Minnesota, for the complete heating and ventilation system and plumbing, for the school building. Plans may be seen at the office of the clerk; also at the office of Kirby T. Snyder, Architect, 751 Plymouth Building, Minneapolis, Minn. A certified check of 5 per cent must accompany each bid; the right reserved to reject any or all bids.

Bids will be opened at Granada at 10 o'clock, May 6, 1914.

C. C. CHAMBERLAIN, Clerk.

KIRBY T. SNYDER, Architect.

**TREASURY DEPARTMENT,** Supervising Architect's Office, Washington, D. C., April 28, 1914.—Sealed proposals will be opened in this office at 3 p. m., June 10, 1914, for the construction complete (including mechanical equipment, lighting fixtures, and approaches) of the United States postoffice at Lake City, Minn. One-story and basement building; ground area, 3,800 square feet; first floor fireproof; stone and brick facing with ornamental terra-cotta cornice, etc.; composition roof. Drawings and specifications may be obtained from the custodian of site at Lake City, Minn., or at this office in the discretion of the supervising architect. O. WENDROTH, Supervising Architect.

**SEALED BIDS FOR TRACTORS AND GRADERS.**

Waseca, Minn.

Sealed bids will be received by the county board at the office of the County Auditor of the county of Waseca, at the court house in the city of Waseca, until 2 o'clock P. M., May 18, 1914, for one or more oil tractors from 20 to 40-horsepower and one or more graders with 8, 10 and 12-foot blades.

Each proposal must be accompanied by a certified check of \$100.00 for each tractor and grader, payable to the county treasurer of said county as a guarantee of good faith.

The board reserves the right to accept or reject any proposal.

Dated April 21, 1914.

THEODORE PETERSON,

County Auditor,

Waseca County, Minn.

P. S.—A demonstration of road work with tractors and graders will be held near the City of Waseca commencing May 11, 1914.

(Continued on page 24)



LINOFELT should be your first thought this spring in building that new home—or remodeling the old one. We know you want COMFORT above all things. Get it. Use Linofelt. Actual tests show it to be 38 times more efficient than building paper. The difference in initial cost will be made up the second winter in fuel saved; and more, you are sure of what you are after—COMFORT. We make every form of insulation preventing cold or heat from going through walls, floors or roofs. Write for illustrated booklets.

**UNION FIBRE COMPANY, -- WINONA, MINNESOTA**

### PROPOSAL ADVERTISING FOR BIDS

#### NOTICE TO BRIDGE CONTRACTORS. Walker, Minnesota.

Sealed bids will be received at the office of the County Auditor of the County of Cass, at the Court House in the City of Walker, Minnesota, until 2 o'clock P. M., Saturday, May the 9th, 1914, for building three steel bridges on State Rural Highway No. 45, in township 143, North Ranges 25 and 26, West Cass County, Minnesota, said bridges are designated on the Engineer's plans as bridges numbered 1169, 1170 and 1171.

##### Bridge 1169.

The superstructure will be twenty (20) feet beam-span, eighteen (18) feet roadway, concrete floor on concrete foundation. Distance from top of floor to bottom of foundation about nine (9) feet.

##### Bridge 1170.

The superstructure will be forty (40) feet truss-span, eighteen (18) feet roadway, concrete floor on concrete foundation. Distance from top of floor to bottom of foundation about thirteen (13) feet.

##### Bridge 1171.

The superstructure will be forty (40) feet truss-span, eighteen (18) feet roadway, concrete floor on concrete foundation. Distance from top of floor to bottom of foundation about thirteen (13) feet.

improvements, South Wing, first and second.

(A) Plans and specifications may be seen at the above named office, at the office of the State Highway Commission and at the office of George A. Ralph, Engineer in charge.

(B) Plans may be submitted by prospective bidders, which shall comply with the specifications of State Highway Commission dated 1912.

Each proposal must be accompanied by a certified check for not less than ten per cent (10%) of the amount of the bid, payable to the County Auditor of said Cass County, Minnesota. All bids must be made on blank forms which will be furnished by the Engineer.

The right is reserved to reject any or all bids.

I. P. BYHRE,  
County Auditor,  
Cass County, Minn.

GEORGE A. RALPH,  
Engineer in Charge,  
380 Shubert Bldg.,  
St. Paul, Minn.

#### STATE HOSPITAL, ST. PETER, MINN.

Sealed proposals will be received by the State Board of Control, in their office at the State Capitol Building, at St. Paul, Minnesota, until 2 P. M., Thursday, May 7, 1914, for the fireproofing and second stories, second hall section, State

Hospital, St. Peter, Minn., including the general contract work, heating and ventilating, plumbing and electric work, in accordance with plans and specifications furnished by C. H. Johnston, Architect, 715 Capital Bank Building, St. Paul, Minn. Bids will be received collectively and separately. Bids to be submitted only on form of bid supplied by the Architect; no other form will be considered. Bids to be accompanied by a certified check for 5 per cent of the amount of the bid, payable to State Board of Control, which check will be returned when building contract is executed.

Copies of above plans and specifications may be seen at the office of the State Board of Control, State Capitol Building, St. Paul, Minn.; at the office of the Superintendent, St. Peter State Hospital, St. Peter, Minn., and at the St. Paul and Minneapolis Builders' Exchanges.

Extra copies of the plans and specifications may be obtained on application to the architect on payment of cost of duplication. Successful bidders must furnish the Board with a surety company bond in 75 per cent of the amount of contract. The right is reserved to accept or reject any or all bids.

(Continued on page 25.)

### FREE HELP WANTED ADS.

#### FOR SALE—GRADER.

For sale—New Era Elevating Grader in fair running order; also a lot of extra parts which are necessary to have on hand. Address Leal Lamoreaux, Mound, Minn.

#### MIXER FOR SALE.

For Sale—No. 9 Coltrin Concrete Mixer, in good condition; for sale, cheap. Can be seen at South Park. T. S. 7255, Call 2.

DAVID LINDGREN,  
South Park, Minn.

(Wanted good brick mason foreman. Ten cents above scale per hour, paid to any man who is a mechanic, rustler, and sober, none other need apply, steady work guaranteed in working season.) Box 60, Bulletin.

**WANTED TO BUY MOTORCYCLE.**  
Send price on second-hand motorcycle. Must be cheap for cash.  
Box 20, Improvement Bulletin.

Wanted—Student in architect's office to learn profession, small salary to begin with, natural ability necessary, previous experience desirable.

Wanted—By first-class, all-around cement worker, position as foreman where he can work and take charge of small crew.

Box 102, Improvement Bulletin.

(Wanted carpenter foreman. Must be steady, sober and a good mechanic, capable of building residences, fireproof constructions or brick school houses, none others need apply, steady work guaranteed the year around, top wages paid to the right man.) Box 65 Bulletin.

An experienced foreman who understands thoroughly paving and grading work, sidewalks and curb construction. Address Lawrence-McCann Co., Eveleth, Minn.

**LITTLE WONDER "FIVE"**  
Charging Position.  
Capacity 5 Cu. Ft. per Batch—35 to 50 Cu. Yds. per Day. Side Loader Doubles this



## Make These Profits

First—50 cts. per cu. yd. over hand mixing, which pays for the mixer in 12 days. Second—TEN DAYS' FREE TRIAL, which cannot be expressed in dollars, but guarantees satisfaction. Third—Quality that insures durability and saves breakdowns and loss of time—all equivalent to profits.

### WONDER MIXERS

are known nationally and indorsed by thousands of contractors as the only logical choice. You ought to know why before you decide on a mixer—and, remember, you must be satisfied before you buy, or we pay the freight.

**WATERLOO CEMENT MACH'Y CORP'N, Mfrs.**

220 Vinton St., Waterloo, Iowa

**HALE CONCRETE MACHINERY COMPANY, AGENTS,**

1042 McKnight Bldg., Minneapolis, Minn.



### SEWER TANK, ETC. Warren, Minn.

Sealed proposals will be received by the City Council of the City of Warren, Minnesota, up to 8 P. M., Friday, May 15, 1914, at the City Hall building in the City of Warren, Minn., for the extension of the present sewer from the present terminus of the sewer to and across the Snake River on Forest and River Avenues to the Snake River, and for the building of an Imhoff Tank, Filter Beds and all other necessary appurtenances thereto.

Plans and specifications can be found at the office of the City Recorder.

Bidders will be required to view the grounds and surroundings before submitting bid.

All bids must be accompanied by a certified check on a State or National Bank of this State for not less than ten per cent of the amount of the bid.

The right to reject any or all bids is reserved.

By order of the Common Council.  
G. O. CROSS,  
City Recorder.

### NOTICE TO CONTRACTORS. School, Clarissa, Minn.

Sealed proposals will be received by the Independent School District No. 67, Todd County, Clarissa, Minnesota, on or before 3 o'clock P. M., May 20, 1914, for the completion and erection of a new school building; also installation of the heating, plumbing and ventilation in the new school building, according to plans and specifications by Kirby T. Snyder, Architect, Suite 751 Plymouth building Minneapolis, Minnesota.

Plans may be viewed at the office of the clerk and at the office of the Archi-

tect. Contractors wishing plans for their exclusive use may obtain the same from the Architect by leaving a deposit of \$25.00 on all plans taken out of the office, same to be returned when the plans are returned to the Architect.

A certified check of 5 per cent of the bid to accompany each proposal. The board reserves the right to reject any or all bids.

(Signed) L. D. THAYER, Clerk,  
Independent School District No. 67.

### NOTICE TO CONTRACTORS. School, Batavia, Iowa.

Sealed proposals for the erection of a 2-story and basement brick school house at Batavia, Iowa, according to plans and specifications by G. W. Kerns, architect, Ottumwa, Iowa, will be received by the undersigned up to 12 o'clock, May 30, 1914. A certified check of \$900 must accompany each bid. The right to reject any and all bids is reserved by the school board.

Independent School District, Batavia, Iowa.

MR. CHAS. FRESCOLN,  
President.

### ARMORY BUILDING, New Ulm, Minn.

The undersigned hereby gives notice that sealed proposals for the erection of an Armory Building for the Militia organizations at New Ulm, including all labor and material, will be received by the State Armory Board until the hour of 2 P. M., on the 20th day of May, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by Albert Schippel, of Mankato, which may be seen at the office of State Bank of New Ulm, and may also be seen

the Builders' Exchange at St. Paul and the Builders' Exchange at St. Paul and Minneapolis.

A certified check for \$500.00, payable to the order of Col. John Buschers, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the full amount of contract price for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed)

JOHN BUSCHERS, Col.  
ALBERT SCHIPPEL, Archt.

### NOTICE TO CONTRACTORS. Bank, Tower City, N. D.

Sealed proposals will be received up to twelve (12) o'clock noon of the 15th day of May, 1914, for the labor and material necessary for the erection and completion of the First National Bank Building, upon the Bank's property at Tower City, N. Dak., and all to be in full accordance with plans and specifications therefor as prepared by C. E. Bell, Architect. Plans can be had of the Owner at Tower City, N. D., and of the Architect in Minneapolis. All proposals must be in duplicate and addressed to S. F. Sherman, Cashier, Tower City, N. D., and plainly endorsed "Proposal for Bank Bldg." Owner reserves the right to reject any and all bids.

### BRICK AND TILE NEWS.

H. R. McQueen of Hibbing states the Range Sand Lime Brick Co. will begin manufacturing about June 1. Forty men are at work at the Pengilly plant. Some improvements to the plant are to be made. Mr. McQueen, the fiscal agent, is an old employee of the Oliver Iron Mining Co., in both the Hibbing and Chisholm districts, and is well known in Virginia.

### MILWAUKEE—Continued from page 17.

construction of a 5-story, reinforced concrete, 150x120, office and warehouse for the Standard Paper Co. at Detroit st. and Broadway; excavating, concrete and cement, Dahlman Construction Co.; electrical, A. M. Kailing; cost \$125,000.

Architects Siebert & Bruecker are revising plans for a duplex flat and store instead of a 4-family flat and store for Fred Vinograd on Walnut near 7th sts.; solid brick, 24x54, costing \$5,000. Have awarded on George Neubauer duplex flat additional: painting, N. F. Schultz.

Architect George Ehlers has awarded additional on duplex for John Killian at 949 9th st.: Plaster, H. J. Krauss Co.; painting, Chas. Kohne; on duplex for J. H. Heinz, 44th st. between North and Meinecke avs.: Plaster, H. J. Krause Co.; electrical, Arthur Borchardt.

Engineers Klug & Schmidt are taking bids on a motion picture theater for G. W. Williams at 21st and Wells; 2-story, 56x120, brick, ornamental plaster, tile flooring, iron work, steam heating, composition roof, marble; capacity of 800, five offices on second floor.

Architect A. R. Ross, New York, has informed municipal officials that he will insist upon payment of \$12,500 for plans for the proposed new \$250,000 central police station accepted by the city several years ago; bond issue turned down by voters at last election.

Architects Herbst & Hufschmidt have awarded contracts on barn for Ramdon Lake Ice Co., at 406 Locust st. Cement, O. H. Bossert; sheet metal, F. J. Romberger; plumbing, L. Schmidt; painting, J. Mueller; carpenter, F. Luenzmann; mason, Czaplowski.

Architect A. D. Conover, Madison and Wauwatosa, will have plans completed shortly for figures on erecting the men's dormitory for the Milwaukee county hospital for insane at Wauwatosa; brick, 2-story and basement, 73x185, costing \$75,000.

The Badger architects are preparing plans for a duplex at 53d and Vine sts.; frame and stucco, brick foundation, 24x45, costing \$3,400; also plans for a bungalow at 53d st. and Pabst av.; frame and stucco, 24x46, hot water heating, costing \$3,500.

Architect F. W. Andree has commenced taking bids on a

store, flat and office building at 11th av. and Walker st.; solid brick, 2-story and basement, 27x53, concrete foundation, hot water heat, composition roofing, plate and prism glass.

Architect Robert Schmitz has awarded on store and flat of Mr. Muernberg on 3d near Lee sts.: Carpenter, Chas. Kiedrowski & Co.; mason, concrete and cement, R. Zils; plumbing, John Hahn; solid brick, 25x70.

Architect Fitzhugh Scott has commenced taking figures on the erection of a residence for Wm. B. Johnson at Shepard av. and Kenwood blvd., to be 40x66, tile flooring, wainscoting and mantles, vapor heating, tile roofing.

Architect A. V. Wiskocil will take bids this week on remodeling a residence into a duplex flat at 18th st. and Cold Spring av.; frame construction, 2-story and basement, 26x59, tile flooring, hot water heating.

Architect A. G. Wolff is working on plans for a residence on Packard av., Cudahy; to be brick veneer first floor, stucco second; 29x38, oak and cypress finish, hot water heating, asphalt shingles; cost, \$4,200.

Architects Leenhouts & Guthrie have let the general contract to H. P. Knudson of Waupaca, Wis., for the erection of a 3-story and basement, 46x63, brick addition to Endeavor Academy at Endeavor, Wis.

Architect A. C. Clas has completed plans for the Portage Telephone Co. exchange building at Portage; solid brick, 2-story and basement, 26x50; bids on steel work and heating here, other bids at Portage.

Architects Fernekes & Cramer are working on plans for a stable and two silos for Fred Pabst at Oconomowoc; hollow tile and plaster, 82x212, tile roofing; also gardener's lodge, 28x38, hot water heating.

Architect Chas. J. Keller has commenced taking bids on a residence for J. L. Harvey at 50th and Grand blvd.; frame, brick foundation, 30x26, furnace heat, art and plate glass, costing \$4,500.

Architect H. J. Esser has completed plans for remodeling the telephone exchange at Madison, Wis.; brick, concrete and steel, 2-story and basement; costing \$35,000.

Architects Robert Messmer & Bro. have completed plans for an opera house, 2-story, solid brick, to be erected at Hortonville, Wis., ready for figures.



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## OF NEW YORK

**B**UILDERS of steel structures of all kinds, including mining and manufacturing buildings, power plants, towers and tanks, bridges and viaducts, turntables for locomotives and automobiles, roofs, trusses, girders and steel frames for business buildings.

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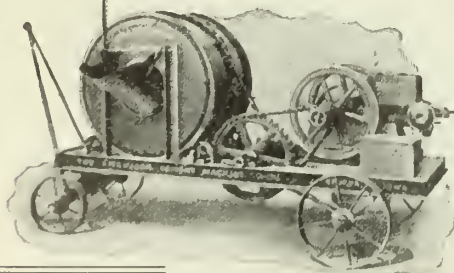
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# The DES MOINES SECTION

Of the Improvement Bulletin

SATURDAY, MAY 2, 1914.

PAGE A.

## IOWA'S CAPITAL CITY

Progress Solid, as the Center of a Most Productive Agricultural Section Where Crop Failure is Unknown—  
Written for The Improvement Bulletin by Ralph Bolton, Secretary Greater Des Moines Committee.

Des Moines is particularly fortunate in having for its trade territory the most productive agricultural section in the United States. Iowa has never known a crop failure. Impaired production only means enhanced prices and a larger income.

Des Moines has built conservatively and has never had an inflated building condition. Building has usually been behind the demand rather than ahead of it. Improvement conditions at the present time in Des Moines are on a very good foundation when the gen-

eral conditions throughout the country are considered. The city at the present time has fully as much, if not more, public street work planned or contracted than at any time in its previous history.

A small concrete arch bridge is just being completed. A large concrete arch bridge and viaduct is contemplated and only awaits legal approval for its completion. A combined police, fire and jail building is being seriously discussed by the city council and will no doubt be launched during the coming season.

A \$150,000 addition to one of the city high schools has just been contracted. A new school has been authorized by the voters. Several additions are planned by the school board. A large publishing house is just rising above the ground. A reinforced concrete cold storage warehouse is being roofed. A reinforced concrete warehouse costing about \$160,000 is just now ready to let. Plans have been approved that mean a ten story modern department store building and an addition of two stories to an adjoining building. Many minor jobbing, retail and factory buildings are contemplated or now under way.

(Continued on page H.)



One of Des Moines' Beautiful Bridges.

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Soldiers' and Sailor's Monument, Des Moines, Iowa.



*An enduring monument,  
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trade mark of a Company  
which bases its success  
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DOORS  
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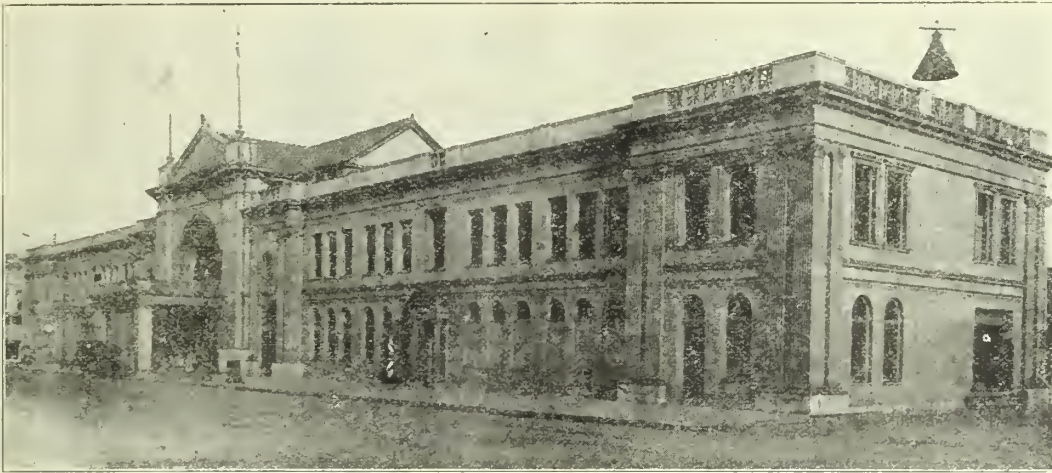
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∴

IOWA





Union Depot, Des Moines, Iowa.

**DES MOINES MARBLE AND MANTEL CO.**

One of the prominent establishments in the marble mantel, and tile field of the northwest is the Des Moines Mantel Co., 1124 Locust st., Des Moines. The catalog which may be had for the asking, shows an unusually complete line of goods, including marble, tile and terrazo for floors and walls, fire places, fire place goods, dome dampers, etc. Prices may be obtained by sending plans. The company employs a force of expert workmen. The business includes, contracting, wholesaling and representing manufacturers.

**DES MOINES STRUCTURAL STEEL WORKS.**

The northwest has a great many examples of the excellent work done by the Des Moines Structural Steel Works, manufacturers of steel and iron for bridges, commercial and other structures, and makers of fire escapes, towers, etc. An inquiry for prices will bring a prompt reply and estimates are quickly furnished on request.

**FLINT BRICK COMPANY.**

Many miles of paving, sidewalk and sewer in Iowa and other states, have been made with the product of the Flint Brick Co., Des Moines. This company is well known through the large demand for its paving brick and blocks. It also makes side walk, building, sewer and black faced brick.

**THE BARBER ASPHALT PAVING CO.**

One of Iowa's best known business institutions is the Barber Asphalt Paving Co. of Des Moines, and one of the of the special products is the paving, brick and block known as "Impervo." It is especially made for pavements, sidewalks and buildings. The company is prepared to give any inquirer a large amount of interesting information about the use and success of the Impervo paving brick.

**NEW LIFE STEEL BOILERS.**

This make of boilers has become widely and favorably known as a result of the success of one of Des Moines numerous manufactories, The McDonnell Boiler & Iron Works. The New Life Steel Boilers are made for steam and hot water. The catalog is well worth reading by any one who intends to purchase a boiler.

**DOUBLE STRENGTH SEWER AND CULVERT PIPE.**

Prominent among the makers in the west of sewer pipe, culvert pipe and drain tile, is the Iowa Pipe & Tile Co., of Des Moines, another of the numerous factories of that city which has carried its name into many districts. The company also makes well curbing, flue lining and wall coping, but its great product is its well known double strength sewer and culvert pipe.

**IOWA BOILER WORKS.**

The Iowa Boiler Works, James Owens & Son, proprietors, 3d and 4th avs., Des Moines, is a well known institution in its line; boilers, breechings, smoke stacks, and all kinds of sheet iron work are included among its output. Repairing is a branch of the business to which special attention is given.

**MAKERS OF STORE AND BANK FIXTURES.**

All kinds of store and bank fixtures are supplied by the Jaeger Manufacturing Co., Des Moines. This company is an expert in its line, as many banks and stores show. The company is prepared to furnish special mill work. W. C. Jaeger is president.

**HAWKEYE PORTLAND CEMENT BUSINESS TREBLES.**

In the last three years the business of the Iowa Portland Cement Co., makers of Hawkeye Portland cement, now over a million barrels per year, has trebled. In the manufacture of this cement the raw material, limestone and shale, is ground wet instead of dry, the object of the wet grinding being to get a more intimate mixture of the chemical ingredients, producing, as we believe, a sounder and more reliable finished cement than can be manufactured under the dry process. The wet process is displacing the dry process in Germany and other European countries. The Iowa Portland Cement Co.'s product is distributed in the states of Iowa, Minnesota, North and South Dakota, Missouri and Nebraska. The plant is located within the corporate limits of Des Moines on the tracks of the C. G. W., C. B. & Q., M. & St. L, and Rock Island railroads, and shipping facilities are unsurpassed. There is always a large supply of cars on hand. Des Moines is a large distributing center and a great many cars bringing in merchandise are emptied there daily.

**MINNEAPOLIS STEEL AND MACHINERY CO., DES MOINES BRANCH.**

The Minneapolis Steel & Machinery Co. maintains a branch in Des Moines, where it is prepared to contract for bridges, both railway and highway, steel mining buildings, steel grain elevators and tank, water towers and tanks, architectural iron work, grey iron, semi-steel castings, and the popular Twin City oil tractors, one of the big successes among these up-to-date inventions. The Des Moines branch is at 319 E. 4th.

**DES MOINES BRIDGE AND IRON CO.**

Steel bridges are among the most successful products of Iowa's capital city, and no factory of them is more widely known than the plant of the Des Moines Bridge & Iron Co. This extensive establishment makes numerous other steel products including structural steel, road drags, fire escapes, reinforcing bars, joist hangers, water towers and water works plants. The company acts as engineers and contractors. Its resources enable it to give quick service at the right prices.

**BUILDERS OF HIGHWAY BRIDGES.**

Among the best known builders and contractors of highway bridges in Iowa is the Iowa Bridge Co. of Des Moines, an establishment of unusual resources for the construction of these bridges in steel, concrete or wood. The company also deals in metal structures, culvert pipe, reinforcing metal, and is the exclusive agent northwest, for the Marsh Rainbow arch. The company supplies designs, specifications, estimates, engineering, inspection. The home office is in the Hubbell building, Des Moines, and there is a branch office in the Tribune Annex, Minneapolis.



**DES MOINES BUILDERS' EXCHANGE**

The Builders' Exchange of Des Moines, is a strong organization. J. H. Maine is president; Frank Perkins, secretary; Will Jaeger, treasurer. Members of Builders' Exchange:

Brick manufacturers: Barber Asphalt Paving Co., D. M. Clay Manufacturing Co., Goodwin Brick Tile Co., Shackelford Brick Co.

Mill-men: Carr-Adams Co., Loetscher Manufacturing Co., Jaeger Manufacturing Co.

Plasterers: Thatcher & Adair.

Contractors and builders: Benson & Marxer, W. H. Brereton, J. E. Lovejoy, J. B. McGorisk, Jas. Maine Sons Co., J. C. Mardis Co., W. F. Mitchell Co., J. E. Tusant & Sons Co., Chas. Weitz Sons Co., Wm. Knudson & Son, L. D. Keys, H. H. Barton, Russell Mills, S. J. Thompson, P. A. Callen, Joel Fickel, A. H. Newman & Co.

Painters and decorators: Boody Holland & New, Buck Bros., Denny Wall Paper Co., J. E. Graham, Hard Wall Paper Co., Wm. Tropps, Geo. J. Duffield, J. E. Close, Atkins, A. L. Barnes, Cooper Bros., C. I.

Freeman, W. J. Linnane, Ransom & Shepherd, C. F. White & Co.

Electricians: John Collins, Perkins Electric Co., Citizens Electric Co., New Midland Electric Co.

Lime and cement dealers: Frank Cram & Son, Geo. W. Deetz, D. M. Building Material Co., D. M. Hard Mortar Co., D. M. Fuel & Lime Co.

Lumber dealers: Century Lumber Co., Reese Gabriel Co., Gilcrest Lumber Co., Jewett Lumber Co., J. H. Queal & Co., Wheeler Lumber Co.,

Plumbers: T. E. Boller, C. C. Plumbing Co., M. J. Corcoran, D. M. Plumbing Co., Globe Heating & Plumbing Co., McCawley Plumbing Co., Pray & Comerford, T. J. Shea, Thomas Plumbing Co., E. Van Dyck, A. H. Walker Co., Wal-



Polk County Court House, Des Moines.

lace & Linnane, T. J. Steele, Bailey Peppard Plumbing Co., Watson Plumbing Co.

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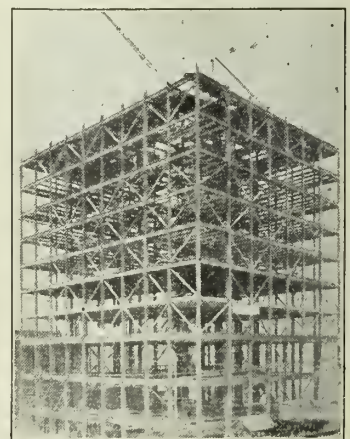
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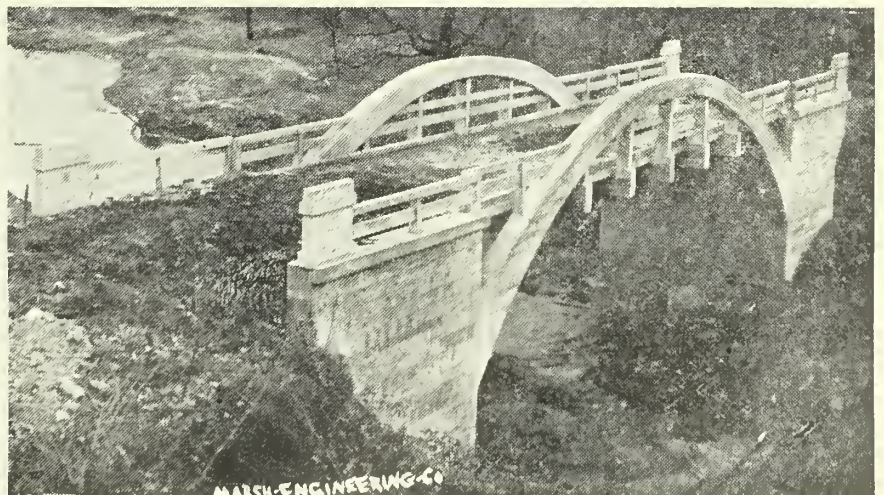
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Twin City Brick Co., Des Moines, is a live independent organization with great resources, for furnishing every kind of brick. Progressive management of the Des Moines office has resulted in a big and growing business and no builder can afford to omit consulting the Twin City Co.

**LOETSCHER & BURCH MANUFACTURING CO.**

This company has an extensive plant and is one of the widely known sash and door establishments of Iowa. Their output includes: sash and doors, mouldings, store, bank and office fixtures and fine interior hardwood finish, of which the company makes a specialty.

**CHAMBERLIN METAL WEATHER STRIPS.**

The Chamberlin Metal Weather Strip Co. were the originators of metal weather strips about twenty-five years ago. Since that time the business has enjoyed a steady growth until today the company is recognized as leader in this field. Their present equipment is the result of these twenty-five years of experience and is regarded as the best possible.

Chamberlin equipment is found on many large buildings in and around Des Moines notably the Polk county court house, Hubbell building, the Fleming building and others.

The Des Moines office for the company is now being conducted by Mr. A. N. Thomas.

**HAWKEYE ENGINEERING CO.**

The Hawkeye Engineering Co., one of the newer organizations of Des Moines, was started less than two years ago by R. T. Hartman, under the name of the R. T. Hartman Co. After some months, Mr. Hartman withdrew to identify himself with other interests and F. R. Hubbard took charge and reorganized the business under the name of the Hawkeye Engineering Co., at which time they moved to their new offices at 407-408 Hubbell building.

This company represents the manufacturers and fabricators of materials and equipment used in fireproof building construction. Ornamental iron, brass and bronze work of



Capitol Building, Des Moines.

all kinds, fire doors, metal windows and doors, reinforcing materials, also gravity carriers, automatic elevators, and spiral chutes are included among their various lines.

Mr. Hubbard, M. Am. Soc. C. E., the present manager, has had many years of successful experience as a structural engineer, having designed some of the best buildings in Iowa and a large variety of heavy bridges and other structures, also a wide experience in the fabricating of structural work.

They are prepared to furnish structural engineering or designs of any character. Especially qualified to furnish efficient and economical designs in reinforced concrete.

**MAKES ASBESTOS SHINGLES.**

The Central Asbestos & Supply Co., Des Moines, is prepared to take your plans and furnish estimates promptly on asbestos shingles, and pipe covering. The company makes a specialty of first-class workmanship, and guarantees it.

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Sash  
Doors

Mouldings  
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Bank, Office and  
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Fine Interior Hardwood  
Finish a Specialty

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## Minneapolis Steel & Machinery Company

Engineers and Manufacturers of Railway and Highway Bridges  
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tectural Iron Work, Grey Iron  
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Send us your plans for estimate on Asbestos Shingles or Pipe Covering complete. We can save you money. J-M materials used. Workmanship guaranteed.

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DES MOINES, IOWA

## Hawkeye Engineering Co.

Successor to R. T. Hartman Co.

Structural Engineers and Manufacturers  
Representatives

Ornamental Iron Stairs, Elevator Enclosures,  
Brass and Bronze Work, Gravity Carriers,  
Spiral Chutes, Fire Doors and Windows, Art  
Metal Doors, Structural & Reinforcing materials,  
Designs in Steel & Reinforced concrete.

F. R. Hubbard, M. AM.  
SOC. C. E., Manager

408 HUBBELL BUILDING  
DES MOINES, - IOWA

## Jaeger Manufacturing Co.

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*Store and Bank Fixtures  
SPECIAL MILL WORK*

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## Iowa Boiler Works

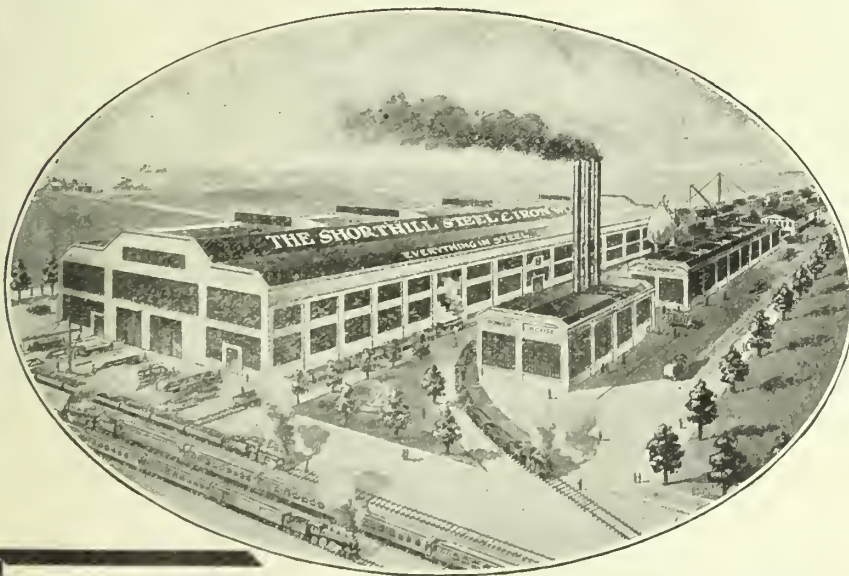
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Manufacturers of Boilers, Breechings,  
Smoke Stacks and all kinds  
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Supplies, etc. Cold Rolled  
Shafting.*

LET US QUOTE YOU PRICES ON EVERYTHING IN STEEL

**The Shorthill Company** Des Moines, Ia.





Historical Building, Des Moines.

### IOWA'S CAPITOL CITY---Continued

There is no doubt but that Des Moines has as many homes under construction at the present time and that it will build as many homes this year as at any time in its past record.

The tariff, federal reserve banks, trust-busting, war scares, etc., have only a second-hand meaning in Des Moines. Its prosperity is based upon agricultural wealth and agricultural production. The people of this nation must be fed. They must have Iowa's products. They must continue to pay increasing prices for them. The population is increasing faster than the production. The only real calamity that could befall Iowa would be the discovery of another Iowa. Until that discovery is made Des Moines will continue to add to her factories, jobbing houses, retail district, homes and population in the same sure, conservative way.

## We Invite Architects and Builders---

interested in interiors to visit our studios in the new Masonic Temple, Des Moines. Our showings of wall fabrics, hangings, floor coverings and furniture are unexcelled and cover the best of period furnishings. We import largely our own selections. We undertake the entire interior furnishing for residences, including designing the woodwork and lighting fixtures. Sketches submitted from architects' plan.

**THE DARWIN COMPANY**

1009-1013 LOCUST STREET  
DES MOINES, - IOWA

# TWIN CITY BRICK

are famous for their beautiful colors and high quality but cost no more than the ordinary kind.

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It can be furnished in any color, smooth or rough faced, dry pressed or wire cut stiff mud.

MADE ONLY BY

**Twin City Brick Company, Des Moines, Ia.**  
ALSO MINNEAPOLIS AND SAINT PAUL, MINN.



## WINNIPEG, MAN.

Permits were taken out for the following apartment blocks: an apartment block to cost \$236,000 will be erected on west side of Burnell st. by Th. Oddson, who is owner, architect and builder. An apartment block will be erected in Fort Rouge, on corner of Aynsley and Fleet, for W. M. Lennox, to cost \$50,000; D. Abramovitch is architect; an apartment block will be erected on corner of Aikens st. and Atlantic av. to cost \$45,000 for J. Vogel, H. Saltzman is architect; an apartment block will be erected to cost \$70,000 for Jas. Noble, on south side of Jessie av., D. Abramovitch is architect; an apartment block to cost \$60,000 will be erected on north side of McMillan av., for B. Bonner, D. Abramovitch is architect.

Permits apartment block, \$100,000 by S. Lobel for G. Genser, who is architect, builder and owner; apartment block by Chisholm & Sheps, for H. Saltzman, who is architect, \$65,000; J. C. Dean, dwelling, \$8,000; Chisholm & Sheps, garage, \$5,000; M. Dorfman, dwelling, \$4,400; Kalesky & Singer, apartment block, \$60,000; D. Abramovitch is architect; W. Manchester, duplex dwelling, \$13,500; J. H. Kolh, architect; Credit Home Builders, Ltd., six dwellings, \$9,200; Morris, Mills & Co., three buildings, \$7,500; F. Esheson, dwelling, Selkirk av., A. A. Bryant, dwelling, \$2,500; L. Nelson, dwelling, \$2,300; J. E. Lennox, dwelling, \$5,000; D. S. Miller, dwelling, \$3,000.

The following building permits were issued: M. Diamond, addition to an apartment block at 401 Selkirk av., to cost \$4,500; Crescent Creamery, blacksmith shop, on Burnell st., to cost \$4,000; H. Olsen, dwelling, Sherburn st., to cost \$3,000; J. Marcovitz, 2 dwellings, Fleet st. to cost 2,200 each; A. H. Blackwell, dwelling, Harbison av., cost \$2,200; H. J. G. Morgan, two dwellings, Rosser av., cost \$8,000; P. S. Wright, dwelling, Grosvenor av., to cost \$7,500; S. W. Reishery, two dwellings, Sherburn st., to cost \$6,000; the Winnipeg Builders Ltd., will build 4 dwellings; J. P. and S. Kroener, a store and dwelling, on corner College and Anderson, will cost \$4,500.

Simmens Bros. owners and builders will erect an apartment block, William av.; cost \$30,000; C. S. Bridgman is architect; R. Kasner, four dwellings, \$7,000; R. Kasner, two dwellings, \$4,400; G. S. Lyon, store and dwelling, \$3,000; C. McConbrey, dwelling, \$3,000; M. Shrieberg, double dwelling, \$2,200.

Permits: F. Newman, eight dwellings, Harrison av., \$14,400; Lloyds Investment Co., two dwellings, Sherburn st., \$6,000; S. Clavert, dwelling, \$4,500; E. Clarke and D. M. Sharpe, dwellings \$3,000; E. Clarke, dwelling, \$3,000; W. Jurickiw, dwelling; C. W. Leard, two dwellings, \$2,000 each.

Permits: Apartment block for Cohen & Meyerowitz, on Manitoba av., \$40,000; M. Blankstein is architect; R. Cohen, 5 dwellings, Ft. Rouge, \$12,000; Adehnan & Soffer, dwelling, Fleet st., \$4,600; C. W. Leard, dwelling, Martin st., \$4,000; C. McKenzie, dwelling \$4,000.

The following building permits were issued here: E. Lazarus, apartment block, east side of Scotia st., to cost \$25,000; McDonald, residence, \$7,000; Canadian Building Co., residence \$7,000; G. F. Cole, dwelling, \$4,000; Field Bros., dwelling, \$3,000.

Permits: Apartment block, J. Kapmar, \$15,000; M. Blankstein, is architect; W. A. Mitchell, two dwellings, \$6,000; W. W. Flemming two dwellings, \$6,000 each; Smith Construction Co., two dwellings, \$5,000; W. Reckie, dwelling, \$4,000.

Permits in St. Boniface: Wallace & Hardy, dwelling, Lorne st., \$4,000; J. Halderson, dwelling, \$5,000; J. B. Decateau, dwellings, to cost \$5,000 each; W. E. Toshack, dwelling, \$5,000; Gault & Lindsay, dwelling, \$3,000.

St. Boniface hospital will spend \$300,000 on a new central wing; J. A. Senecal of Senecal & Baribeau, architects and engineers, is architect for Hochelaga Bank and the hospital, and expects to start work in May.

Tenders are wanted to May 6, by chairman, board of control, for supply of a quantity of brass goods, required for the house services to be delivered at City yards, Ross av., Winnipeg.

Senecal & Papineau, architects and engineers, St. Boniface, are in charge of the new Banque d'Hochelaga building, and the St. Boniface hospital extension.

Tenders are wanted by E. D. Tuttle, architect, 700 McArthur building, Winnipeg, for erection of a principal's residence for Oak Bluff, C. S. D.

Tenders wanted to May 22, by chairman, board of control, for the manufacture and delivery f. o. b., Winnipeg, of induction feeder regulators.

Tenders wanted to May 13, by W. H. Montague, minister of public works, here, for boiler and stokers required in the new power house here.

## PLANS AT BUILDERS' EXCHANGE MINNEAPOLIS.

Plans on file April 27, bank, Grafton, N. D., bids open April 25; armory, Fairmont, Minn., April 27; cottages, 8 and 9, Anoka, Minn., April 27, same, mechanical equipment, April 27; high school, Arcadia, Wis., April 28; telephone and clock system and electrical, Hastings, April 28; store, Frank Fandel, St. Cloud, Minn., April 28; bank, Grand Forks, N. D., April 29; bank, Shakopee, Minn., April 30; theater, Sauk Center, Minn., May 2; mechanical equipment, theater, Sauk Center, May 2; Masonic temple, Watertown, S. D., May 2; parochial school, Epiphany, S. D., May 2; church addition, Fairfax, Minn., May 4; school, Toledo, Iowa, May 4; Ardock school, Ardock, N. D., May 4; electric light plant, Comfrey, Minn., May 4; church, Crookston, Minn., May 5; post office, Wahpeton, N. D., May 5; church, Dawson, Minn., May 6; state hospital, St. Peter, Minn., May 7; church, Plato, Minn., May 7; school, Dahlen, N. D., May 11; ladies gymnasium, University of Minnesota, May 11; childrens' hospital, Phalen Park, Minn., May 15; school, Bathgate, N. D., May 18; city hospital, Menomonie, Wis., May 14; church, Watertown, S. D., May 18; school, Sioux Falls, S. D., May 21; school, Madock, N. D., May 25; bank, Plentywood, Mont., brick building, Carthage, S. D., Masonic temple, Howard, S. D. addition horse barn, University farm, St. Paul, residence, Watertown, S. D., rewiring state normal school, Mayville, N. D., Leisen building, St. Cloud, Minn.

Bids in: School, Willmot, S. D., chemistry building, Vermillion, S. D., hotel, Rochester, Minn., bank, Beltrami, Minn..

Contracts awarded: Garage, Fargo, N. D., as yet not awarded, bank and business building, Comfrey, Minn., E. Puhlman, Springfield, Minn., school, St. Cloud, Minn., bids rejected, only local bids wanted, school, Virginia, Minn., Faucett & Bergstrom, Virginia.

## DES MOINES, IOWA

Bert N. Mills, representative, 310 Hubbell Building.

*Items marked with asterisks not in Daily Sheets.*

\*St. Ambrose Cathedral, head church of the Des Moines bishopric, is contemplating local building improvements to cost about \$750,000, including a modern hotel, 6th and Grand. If the plan is carried out church will build parochial school and convent.

\*Schmidt & Henry, furniture manufacturing concern, announces it will add a 4-story building, 60x128, to plant at 320 8th st.; brick and glass.

\*G. W. Koss Construction Co. of Des Moines was this week awarded the contract at \$139,000 for the 7th st. bridge and viaduct across the Raccoon river and railroad tracks along same. Work is to start at once.

\*Interstate Realty Co. announces that new homes aggregating \$150,000 in cost will be built this year in Gil-Mar park, a West Des Moines suburb; average cost, \$5,000. W. H. Harwood, secretary.

\*Charles Ebersole will build \$7,000 residence this summer; Country Club blvd. and Schriver av.

\*Edward Thompson has secured a building permit for a \$10,000 residence at 1715 E. 9th st.

\*William Hines has been appointed by the Chamber of Commerce as chairman of a committee to investigate a proposition by the McKinley syndicate to build a central heating plant in Des Moines.

\*Council soon will pass resolutions of necessity for paving Hickman av., Beaver road to limits.

\*Iowa Building Co. is introducing California ideas of construction in a group of dwellings in Floral Hill.

The steel for the school building at Rosie, Iowa, is being furnished by the Des Moines Structural Steel Works, Des Moines, Iowa. F. W. Fais, Spencer, Iowa, general contractor.

The Des Moines Structural Steel Works was awarded the contract for furnishing the steel for the school building at Gillet Grove, Iowa. F. W. Fais, Spencer, Iowa, general contractor.

## SIoux CITY, IOWA

Sioux City Office: 310 Iowa Building. R. V. Sager, Representative.

Bids will be opened May 1, on the house for Miss Johanna Hansen; bids will also be opened for the residence for W. D. Buckley on May 15; Geo. W. Burkhead, architect, Grain Exchange building.

J. J. Keefe has been awarded the contract at \$11,230 for garage for Geo. C. Call, Pearl st. and Perry Creek; 75x150 and 75x50 feet; Beuttler & Arnold, architects, Security building.

Plans for Val Blatz, building for J. A. Magoun will be ready



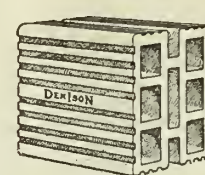


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for figures May 2; Beuttler & Arnold, architects, Security building.

Geo. W. Burkhead, architect, is drawing plans for a bungalow at Paullina, Iowa; one and one half stories; cement block foundation, frame construction, hot water heat, tile floors, fireplace, 38x44; \$3,500.

## FARGO, N. D.

VICTOR H. LEEBY,  
Builders' and Traders' Exchange.

### PLANS AT BUILDERS' AND TRADERS' EXCHANGE.

City hall, J. A. Shannon, architect, brick, 41x57, 2-story, Lakota, N. D., bids close May 4; residence, H. Gillespie, architect, frame, 28x36, 2-story, Fargo, bids close May 4; school, Ross & Son, architects, brick, 40x50, 2-story, Ardoch, N. D., bids close May 4; residence, H. Gillespie, architect, frame, 39x40, 2-story, Fargo, bids close May 6; school, H. Gillespie, architect, brick, 35x65, 2-story, Milnor, N. D., bids close May 11; school, Ross & Son, architects, brick, 40x50, 2-story, Dahlen, N. D., bids close May 11; store, H. Gillespie, architect, brick, 37x95, 2-story, Campbell, Minn., bids close May 13; school, Ross & Son, architects, brick, 34x77, 2-story, Bathgate, N. D., bids close May 18; school, Ross & Son, architects, brick, 65x66, 2-story, Maddock, N. D., bids close May 25.

Plans expected soon: School, Haxby & Gillespie, architects, brick, 2-story, New England, N. D.; school, Haxby & Gillespie, architects, brick, 43x64, 2-story, Vining, N. D.

Contracts awarded: School, Cooperstown, N. D., J. Schlancer Co., Fargo; architect, Hancock Bros., Fargo. School, Dalfield, N. D., Meinecke Building Co., Marmouth, N. D.; architects, Haxby & Gillespie, Fargo. Store, La Moure, N. D., Ritterbush & Harris, Oakes; architects, Haxby & Gillespie, Fargo. Bank, Sheyenne, N. D.; Knut Eggar, Sheyenne, N. D.; architects, Haxby & Gillespie, Fargo.

## OMAHA, NEB.

Steel has arrived for the new Randolph hotel; cost \$1,000,000, and excavation finished.

W. J. Crendon, contractor, Omaha, is low bidder for the City hall at Hooper, Neb., at \$6,640.

\*John T. Kerns has bought a site for an apartment building.

\*Edward Phelan has authorized his agents to build an automobile building for the McIntyre Auto Co.; 40x132.

\*The Skinner Manufacturing Co. will build a plant in four months; Partridge Thomson, excavation contract, Lawrie, architect; 132x132, 8-story, fireproof.

\*Contract for the State Orthopedic hospital at Lincoln has been let to Riescher Co., of that city, at \$36,995.

\*A new building for the Nebraska school for the deaf at 45th and Blvd., is to be erected; cost about \$60,000; plans at Builders' Exchange, Architect Craddock, designer.

## STREET AND ROAD WORK

Iowa, Dubuque—Hearing April 30, work on State st., macadam, curbing, paving, cutting and filling, estimated to cost \$4,642; also, at same time, paving an alley with brick on concrete foundation, 1,164 square yards, estimated to cost \$2,574; also, at same time, curb on Cox st., estimated to cost \$1,260; J. J. Shea, city recorder.

Minn., Cambridge—C. P. Larson & Co., city, only bidder on road construction jobs and it was rejected; G. C. Smith, county auditor.

Minn., East Grand Forks—All bids rejected for paving in residence district, regarded too high; may go over a year.

Minn., Montevideo—Council has ordered that 1st st. be paved; address city clerk.

Minn., Rochester—Council ordered Dubuque st. paved, material, asphaltic concrete; address city clerk.

Minn., Winona—County board discussing project for 90 miles of roads to cost \$450,000, brick on hills, 8-ft. macadam on market traveled side of road, rest to be dragged 30 feet wide on level.

Neb., Beatrice—City commissioners created paving districts 13 and 14; special election called on improvements; address city clerk.

Neb., University Place—Citizens voted to pave St. Paul st. from H to Q sts.; address city clerk, Lincoln.

S. D., Yankton—Hearing May 18, on concrete sidewalks; John W. Summers, city auditor.

Wash., Bellingham—Council considering material for \$125,000 worth paving; address city clerk.

Wis., Green Bay—Council decided on asphalt for Cass and Clay sts. paving. Address city clerk.

Wis., La Crosse—Council decided on plan of Milwaukee road for stairs from sidewalk to bridge, cost \$83,000. Address city clerk.

Wis., Madison—Dane county will spend \$200,000 on road this year, 30 miles of macadam and several miles concrete; G. J. Fjelstad, county clerk.

Wis., Mondovi—Bids rejected for concrete road work; J. Rhinehart, Nelson, Wis.

Wis., Oshkosh—Property owners favor bituminous concrete No. 2, for paving Eveline st.; address city clerk.

Alta., Medicine Hat—City Engineer Grimmer submitted to council program for cement walks to cost \$90,000.

Iowa, Denison—Proceedings under way for paving about 18 blocks; address city clerk.

Iowa, Des Moines—City council about ready to order paving of Hickman av.; Horace Susong, city clerk.

### BIDS WANTED.

Iowa, Fort Dodge—Bids received by W. L. Tang city clerk, until 9 a. m., May 11, for about 31,274 square yards paving and about 29,041 lineal feet curb and gutter, material for paving either sheet asphalt, cement, concrete, asphaltic concrete or bituminous concrete; check 10 per cent.

Iowa, Fort Dodge—Bids received by W. L. Tang, city clerk, until 9 a. m., May 4, for cement walks; check 10 per cent.

Iowa, Keokuk—Council voted to pave Exchange st. with Minn., Bagley—Bids received by H. K. Rude, county auditor, until 2 p. m., May 5, county road work, grubbing, gardening, ditching, graveling, 1 concrete culvert; estimated cost \$564; check 5 per cent.

Minn., Baudette—Bids received by T. J. Claufon, village clerk, until 8 p. m., May 8, for grading and leveling about three-fourths of a mile.

Minn., Blue Earth—Bids received by Jesse L. Herring, auditor, Faribault county, until May 6, for 13,072 cubic yards grading, 900 lineal feet turnpiking and 1,075 cubic yards graveling, estimated to cost \$4,113.

Minn., Carlton—Bids received by August R. Norman, county auditor, until 10 a. m., May 5, state road No. 2; check \$100.

Minn., Coleraine—Bids received by J. A. Wasson, village clerk, until 8 p. m., May 6, for one portable rock crusher, 5 tons per hour, 6-inch feed, gasoline or kerosene power.

Minn., Crookston—Bids received by H. J. Welte, county auditor, until 2 p. m., May 26, for 10,000 feet road work, requiring 15,555 cubic yards material; check for 5 per cent.

Minn., Detroit—Bids received by W. J. Morrow, county auditor, until 2 p. m., May 6, grading on state roads; check 5 per cent.

Minn., Duluth—Bids received by O. Halden, county auditor, until 2 p. m., May 5, for furnishing St. Louis county cast iron culverts for road work during 1914, size 8 to 48 inches; state whether nested or solid.

Minn., Duluth—Bids received by R. Murchison, commissioner, until 10 a. m., May 5, for 880 cubic yards coarse sand; 1,800 cubic yards No. 2 sand; 1,100 cubic yards gravel; 230 cubic yards trap screening, 1-10-1/2; 8,800 square yards triangle mesh, 140 joint protectors, 12 feet 4 3/4 inches long; 70 joint protectors, 4 feet long, 2,100 feet No. 2, elastic or gensasco joint filler, 1,500 sewer brick; 500 lineal feet 12-inch vitrified tile pipe; 290 lineal feet 10-inch vitrified tile pipe.

Minn., Elbow Lake—Bids received by O. E. Wold, county auditor, until 10 a. m., May 22, for three construction jobs on state roads; check 5 per cent; officially advertised in this issue of the Improvement Bulletin.

Minn., Falls City—Bids received by Geo. Riechers, city clerk, until 2:30 p. m., May 14, paving in districts 8, 9, 10, 11 and 12, estimated to cost about \$47,000; check for \$500 on each district.

Minn., Grand Rapids—Bids received by M. A. Spang, auditor Itasca county, until 10 a. m., May 8, construction of section 2, of the Alwood-Big Fork trunk line, 6.8 miles; also, at same time, divisions A to J of the Marcell-Third River trunk line road, 9 miles; checks in each case for 5 per cent.

Minn., Mankato—Bids received by F. W. Bates, city clerk, until 9:30 a. m., May 4, improving Main st., grading, storm sewer, curb and gutter and limestone surfacing; check 10 per cent; also, at same time, grading, leveling and resurfacing in Sibley park; check for \$50.

Minn., North Branch—Bids received by Archie F. L. Stromgren, county auditor, until 11 a. m., May 16, county jobs 1 and 2, total of about 47,000 lineal feet, clearing, grubbing, grading and turnpiking; also concrete and corrugated culverts as per plan; check 5 per cent.

Minn., South St. Paul—Bids received by J. R. Stevenson, city recorder, until 7:30 p. m., May 4, grading and improving 8th av.; also, until 8 p. m., May 4, cement block crossings



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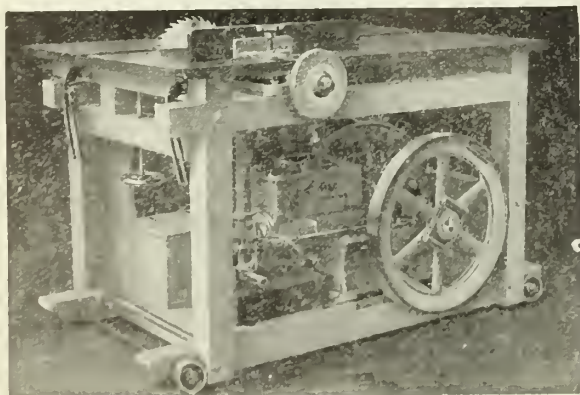
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and gutters; 10 per cent check for first and \$100 for second.

**Minn., St. Paul**—Bids received by Leonard C. Seamer, clerk board public works, until 2 p. m., May 7, for grading on Montreal av.; also, at same time, for paving alley in block 13 with sand lime brick; also, at same time, for grading Chatsworth st.; also until 11 a. m., May 6, for a fence on distribution yard No. 1; also until noon, May 5, for building a machinery shed and repair shop at the asphalt plant; check on bids on each of these jobs, 10 per cent.

**Minn., Walker**—Bids received by I. P. Byrhe, auditor, Cass county, until 10 a. m., May 12, job No. 5, on state road No. 3, also Job No. 12 on state road No. 1, also clearing and grubbing 34.5 acres, also clearing and grubbing 1½ acres; check in each case for 5 per cent.

**\*Minn., Waseca**—Bids received by Theo. Peterson, county auditor, until 2 p. m., May 18, for oil tractors and graders. Check for \$100. Officially advertised in this issue of the Improvement Bulletin.

**Minn., Winona**—Bids received by Geo. W. Hoffman, city recorder, until 8:30 p. m., May 18, for large amount of concrete sidewalk; check as required by law.

**Minn., Worthington**—Bids received by Gus. Swanberg, county auditor, until 2 p. m., May 5, county job No. 3; grading, turnpiking and 23 concrete culverts; estimated cost \$5,657; check for 5 per cent.

**Mont., Glasgow**—Bids received by E. E. Crawford, city clerk, until 8 p. m., May 13, cement walks, curbs, crossings and street lighting system in district No. 17; check 10 per cent; E. S. Severance, city engineer.

**Mont., Helena**—Bids wanted by R. N. Hawkins, secretary state board examiners, until noon, May 18, for cement walks on grounds of state capitol; check 5 per cent.

**Neb., Lincoln**—Bids received by Theo. H. Berg, city clerk, until 2 p. m., May 5, paving in district 277, estimated to cost \$15,600; various other paving districts are being created.

**Neb., Omaha**—Bids received by Thos. J. Flynn, city clerk, until 9 a. m., May 12, paving and curbing certain streets, bids to be either asphalt, vitrified brick, vitrified brick block, artificial stone, macadam, creosoted wood block, asphaltic concrete and vertical fibre brick.

**N. D., Washburn**—Bids received by E. C. Stocker, auditor, McLean county, until 2 p. m., May 5, 20 or more Fresno scrapers and 5 or more road plows, f. o. b. Washburn.

**S. D., Redfield**—Bids received by H. R. Wood, auditor, Spink county, until 2 p. m., May 5, grading strip known as "gumbo sag."

**S. D., Tulare**—Bids received by James Avery, town clerk, until 2 p. m., May 14, for grading one mile in Tulare township.

**Wis., Fond du Lac**—Bids received by J. S. McCullough, chairman board public works, until 3 p. m., May 14, for grading and paving with reinforced concrete on various streets.

**Wis., Fond du Lac**—Bids received by Alfred S. Wilkinson, county clerk, until 10 a. m., May 5, for highways in towns of Eden and Osceola estimated to cost \$14,100; check \$100.

#### CONTRACTS AWARDED.

**\*Iowa, Cedar Rapids**—Contract for sidewalks awarded to J. B. Ford, Cedar Rapids, Iowa, at \$9,150.

**Iowa, Chariton**—Iowa Engineering Co., Clinton, Iowa, reports contracts on paving as follows: division "A," contract to J. W. Turner Improvement Co., Des Moines, 4,000 cubic yards excavation at 40c, 24,400 lineal feet curb and gutter at 53½c, 6,500 pounds cast and wrought iron at 3c, 30,550 square yards brick paving with pitch filler at \$2.04, a total of \$77,171; division "B," 2,000 cubic yards alley excavation at 40c, 8,570 square yards cement concrete paving at \$1.29; total of \$11,855. Other bidders on division "A" were: H. C. Reinking Construction Co., Des Moines, \$77,255; Capital City Concrete Construction Co., Springfield, Ill., \$77,960; Western Improvement Co., Racine, Wis., \$79,435; J. S. McLaughlin & Sons, Red Oak, Iowa, \$80,029; Dearborn Construction Co., Waterloo, Iowa, \$80,212; H. J. Cathroe, Omaha, Neb., asphalt filler, \$80,373; Jas. Horrabin & Co., Des Moines, Iowa, asphalt filler, \$81,587; Cameron, Joyce & Co., Keokuk, Iowa, pitch filler, \$82,050; Akin & Flutter, Des Moines, Iowa, pitch filler, \$82,848; Des Moines Asphalt Paving Co., Des Moines, Iowa, asphalt filler, \$83,098; Spaulding & Kearns, Fairfield, Iowa, asphalt filler, \$83,683; Briggs & Corey, Shenandoah, Iowa, asphalt filler, \$84,747.

**Iowa, Council Bluffs**—Contract with P. C. Hansen & Son, Sioux City, for 59,662 square yards concrete paving and 33,030 lineal feet concrete curb and gutter.

**Iowa, Denison**—Contract made by county board for road grading as follows: Ahart & Petersen, 4,200 yards east of Arion, at 25c per yard; 2,800 yards, east of Arion at 21c per yard; 5,000 yards just east of Denison for \$1,050; 3,200 yards east of Charter Oak, at 20c; T. H. Finneran, 5,500 yards west of Denison, at 24½c per yard; J. E. Hoy, 4,300 yards east of

Denison, at 22c; 4,000 yards east of Vail at 21c; 7,100 yards east of Vail at 23c.

**Iowa, Marshalltown**—Plans nearing completion for cutting down and grading some of steepest hills of county; Herbert Bros., railroad contractors, retained.

**Minn., Bemidji**—Contracts for road building let to Tom Smart, Goodman & Loitved, G. M. Nesset, Wm. Sjogren, Sktrivish & Goodmanson, Strand, Reeves & Learum.

**Minn., Crookston**—Contract to Jos. Jarvis, East Grand Forks, graveling state roads 2 and 6, at \$4,197; also to Minneapolis Steel & Machinery Co., metal culverts for Polk county this year.

**Minn., Duluth**—Contract for state rural highway No. 4, let to J. A. Dahl & Co., at \$126,272

**Minn., Grand Rapids**—Contract to McWillis, Latvala & Lake for 16 miles of road from McKinley to Hill City at \$19,806, and to Abe Palon, Swan River, for 3 miles from Swan river to Bruce at \$4,990.

**Minn., Ivanhoe**—Contract with Russell Grader Manufacturing Co., Minneapolis, Minn., for 18 King drags and other road machinery.

**Minn., Le Sueur Center**—Contracts for road machinery have been made as follows: O. C. Thur, 24 Austin Western No. 2½ wheel scrapers, for \$1,056; Gilbert Improved Corrugated Culvert Co., 21 No. 2 drag scrapers, with double bottom, for \$105, and 4 No. 1 plows with extra shear for \$96,48; John Kehoe, 26 road drags for the sum of \$260.

**Minn., Mankato**—Contract to J. J. Brown, Madison Lake, for 20,400 feet road work at \$2,759; C. L. Kennedy, county auditor.

**Minn., New Ulm**—Contract with August Puhlmann for concrete work for city during year.

**Minn., Ortonville**—Contract to Martin T. Larkin, Barry, for 5 jobs, road construction, at \$3,000; other bidders were: T. A. Barr, Correll, \$3,400; J. M. Coyne, Graceville, part only, \$1,250.

**Minn., Park Rapids**—Contract with Jas. Wilkins for Elwell road between Park Rapids and Nevis at \$15,455.

**Minn., Stewart**—Contract with Willie Borth, city, grading roads at \$485.

**Minn., Tenstrike**—Contract with W. T. Blakely, or Farley, completing the state road under Elwell law, between Turtle River and Blackduck.

**Minn., Winona**—Contract with Otis Abell, city, for 2,850 feet brick paving, no curb at \$9,401; other bidders were: John Lohse & Sons, city, brick, no curb, at \$9,759; Otis Abell, brick and curb, \$10,834; John Lohse & Sons, brick and curb, \$10,938; Miller & Steihn, city, concrete, \$10,050; Otis Abell, concrete, \$8,111; John Lohse & Sons, concrete, \$9,534; H. B. Walling, engineer.

**Mont., Twin Bridges**—Contract with Al. Ellis, walk to Orphans' home, \$1,200.

**N. D., Ellendale**—Contract to Gates & Waite, city, for cement walks at 10c per square foot, crossings, 15c per square foot.

**Wis., Oshkosh**—Contracts for paving let as follows: J. Rasmussen & Co., three jobs, one to be cement No. 1 and two bituminous concrete No. 2; Chris Johnson, cement No. 1; Larsen Construction Co., cement No. 2.

#### WATER WORKS

*Notes arranged alphabetically by States.*

*Items marked with asterisks not in Daily Sheets.*

**Alta., Edmonton**—Filter plant to cost \$175,000 will be begun soon.

**Iowa, Bedford**—Council considering forming a stock company and taking over water plant and constructing a large reservoir.

**Iowa, Cherokee**—Water works extension, 5,265 feet let to C. B. Reynolds, Council Bluffs, at \$1,325.

**Iowa, Des Moines**—Mayor Hanna circulating petition for special election to vote on issuing water bonds.

**Iowa, Des Moines**—Work will begin this week on laying 10 miles of mains.

**Iowa, Marshalltown**—More than a mile of water works extensions were ordered.

**Minn., Duluth**—Council voted to extend water mains from New Duluth to Gary, estimated cost \$15,000.

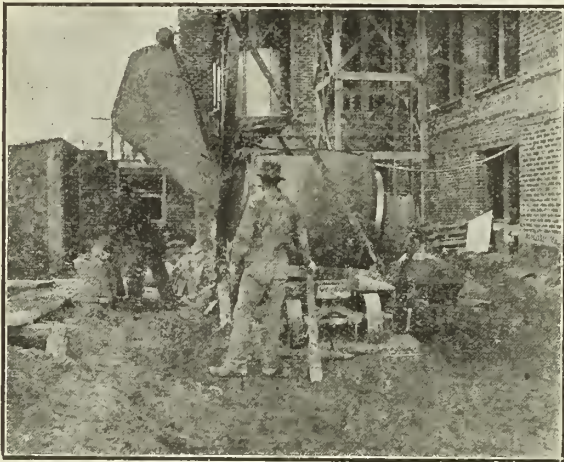
**Minn., Paynesville**—Old water tower and tank declared unsafe and new ones will be erected, estimated cost \$5,000.

**Minn., St. Cloud**—Mayor P. J. Seberger recommended commission reconsider rejected bids for 1,500-gallon electric pump.

**Minn., Winona**—Engineer Maxwell, a representative of the



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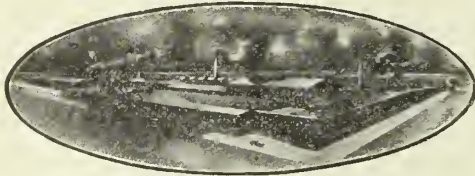


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Alvord & Burdock Co., Chicago, made a survey for an artesian water supply for this city.

**Mont., Three Forks**—Water works bonds were voted.

**Neb., Alliance**—Council has been petitioned for extension of water main between Emerson and Platt sts.

#### BIDS WANTED.

**Iowa, Stanwood**—Bids received May 5, by Wm. M. Thompson, clerk, 8 p. m., for 100-foot steel tower and tank, 40,000 gallons capacity, 6,470 feet 4-inch mains, 700 feet 6-inch pipe, 775 feet 8-inch mains, 15 hydrants, 10 4-inch gate valves, 2 6-inch gate valves, 8-inch gate valve; separate bids for tower and tank; check for \$500.

**Minn., Duluth**—Bids received by C. S. Palmer, city clerk, 3 p. m., May 4, for laying 36-inch cast iron water main; check for 10 per cent.

**\*Minn., Madison**—Bids received by Rev. Val. Schiffrer, until 8 p. m., May 12, for a parochial school. Check for \$200. Officially advertised in this issue of the Improvement Bulletin.

**Mont., Glasgow**—Bids received by E. E. Crawford, city clerk, 8 p. m., May 13, for construction of water main in special improvement district No. 18.

**Neb., Blair**—Bids received by S. W. Chambers, city clerk, 6 p. m., May 6, for 1,200 feet, 6-inch mains and 400 feet 4-inch mains, fittings, valves, hydrants, etc.

**Neb., Grand Island**—Bids received by E. E. Clifford, city clerk, for 80 tons class D water pipe, also for taking up 1,186 feet of 4-inch mains, and relaying 842 feet with 18-inch pipe and 34 feet 6-inch pipe, furnishing all lead and jute; check for 5 per cent.

**N. D., Beach**—Bids received by M. A. Egan, city auditor, 8 p. m., May 11, for furnishing and erecting two standpipes for filling street sprinkler, including tapping of water main.

**N. D., Valley City**—Bids received by M. J. Boyd, county auditor, 8 p. m., May 4, for construction of water main; check for 10 per cent.

**S. D., Beresford**—Bids received by Frank Bruehler, city auditor, 6 p. m., May 4, for construction of reinforced concrete reservoir, 100,000 gallons; check for \$50.

**S. D., Chamberlain**—Bids received by Jno. F. Maack, county auditor, for construction of one or more artesian wells.

**S. D., Madison**—Bids received by Wm. Rae, 8 p. m., May 11, for well 30 feet in diameter, 23 feet deep; Chas. A. Trimmer, city engineer; check for \$300.

**\*Wis., Colfax**—Bids received by C. A. Kinney, village clerk, until 2 p. m., May 11, for a water works system. Check for 5 per cent. Officially advertised in this issue of the Improvement Bulletin.

**\*Wis., Oconto Falls**—Bids received by T. F. Reynolds, clerk school district, until noon, May 18, for brick addition to high school. Check for 2 per cent. Officially advertised in this issue of the Improvement Bulletin.

#### CONTRACTS AWARDED.

**Iowa, Marshalltown**—Contract for \$2,600 worth of cast iron water pipe and castings let to Lynchburg Foundry Co., Lynchburg, Va.

**Minn., Sanborn**—National Co., South Bend, Ind., received contract for water works system at \$8,941. W. D. Lovell, engineer.

**\*Neb., University Place**—Contract awarded to E. C. Archibald, Council Bluffs, Iowa, at \$2,000, for digging deep well; C. C. Gates, clerk.

**Sask., Swift Current**—Contract for extension of water mains let to M. S. Holmes, Regina.

**S. D., Redfield**—Norbeck & Nicholson have contract to sink artesian well.

**Iowa, Sac City**—Hearing June 1, on a number of 8-inch vitrified pipe sanitary sewers; W. F. Weary, city clerk.

**\*Minn., Warren**—Date changed for the receiving of bids by city on sewer, tank, etc., from May 8 to May 15, 8 p. m. See official advertisement in the Improvement Bulletin this week.

**Mont., Valier**—Hearing May 4 on sewers in special districts No. 4, 5 and 6; H. D. Harrison, clerk town of Valier.

**Neb., Columbus**—Installation of sewer system being planned by L. F. Gottschalk, city engineer.

**Neb., Ravenna**—Petitioners want special election to vote \$22,000 for a main and lateral sewer system; address city clerk. Later election called for May 12.

**Neb., Stanton**—Bonds for sewer system voted; soon want bids; 6, 8 and 10-inch vitrified pipe. W. T. McFarland, city clerk.

**Neb., Tecumseh**—Lateral sewer district No. 2, is being created; J. C. Moore, city clerk.

**S. D., Aberdeen**—A lateral sanitary sewer proposed for 10th av.; F. W. Raymond, city auditor.

**S. D., Sioux Falls**—Some sewer work ordered on 14th st.; W. C. Leye, city auditor.

**Wis., Manitowoc**—City Engineer Pitz instructed to furnish estimate of expense for the Wollmer st. sewer; address city clerk.

**Wis., Onalaska**—Plans for sewer system have been submitted to state board of health for approval; Geo. Bradish, city engineer.

**Wis., Oshkosh**—Plans proposed for sewers in Cathering and Reed sts.; Dan Witzel, city clerk.

**Wis., West Salem**—Village board authorized extension of sewers; S. W. Brown, clerk.

**Wyo., Sheridan**—Council and business men favor election to vote bonds in sum of \$40,000 for sewer system to be built this year; address city clerk.

#### BIDS WANTED.

**Iowa, Greene**—Bids received by LeRoy Niles, town clerk, until 7:30 p. m., May 20, for sewers, disposal plant, and outlet sewers; check \$200 for disposal plant and \$500 for sanitary sewers; officially advertised in this issue of the Improvement Bulletin.

**Minn., Eveleth**—Bids received by A. P. Romer, city clerk, until 8 p. m., May 5, for 2,050 lineal feet sewer ditch; check 10 per cent.

**Minn., St. Paul**—Bids received by Leonard C. Seamer, clerk board public works, until 2 p. m., May 7, for sewer on Dale st.; check 10 per cent.

**Minn., Warren**—Bids received by G. O. Cross, city recorder, until 8 p. m., May 8, for extension of sewer across Snake river, and building of an Imhoff tank, filter beds and other appurtenances.

**Mont., Miles City**—Bids received by J. E. Farnum, city clerk, until noon, May 11, for sanitary storm sewers in special improvement district No. 45; check 10 per cent; also, at same time, for sewer on district No. 44.

**Neb., Norfolk**—City engineer instructed to advertise for bids for a sewer in district No. 40; address city clerk.

**N. D., Valley City**—Bids received by M. J. Boyd, city auditor, until 8 p. m., May 4, for construction of 10-inch sewer; check 10 per cent.

**Sask., Regina**—Bids received by L. A. Thornton, city commissioner, until May 12, for sewer pipes, sewer brick, manhole covers and frames and supply of manhole steps.

#### CONTRACTS AWARDED.

**Iowa, Cedar Rapids**—Contract for 10-inch sanitary sewer awarded to W. A. Edgar, city, at \$1,996.

**Iowa, Sac City**—Contract to Western Construction Co. for 5 blocks storm sewer at \$1,970.

**Minn., Albert Lea**—Contract to C. M. Tapager for a 40-foot wing on the grand stand at base ball park.

**Minn., Mankato**—Contract let to C. M. Masters, city, for a sanitary sewer at \$633.

**Minn., Moorhead**—Contract to W. H. Merritt for grandstand, seating capacity of 1,000; contract for bleachers not let.

**Neb., Norfolk**—Contract with Elkhorn Construction Co., Fremont, for sewer in Nebraska av. and 13th st.

**Sask., Humboldt**—Contract with Flanigan & Murphy, Fort Wilam, Ont., for sewer pumping station, disposal works, and sewer work, water mains, etc., at \$150,000; contract for sewer pipes and junctions to Summit Engineering Co., Calgary, Alta.

**Sask., Swift Current**—Contract with M. S. Holmes, Regina, for extension to water and sewer systems.

**S. D., Sioux Falls**—Contract for a number of stub sewers let to F. Fannebust Bros., at \$1,168.

## SEWERS

*Notes arranged alphabetically by States.*

*Items marked with asterisks not in Daily Sheets.*

**Iowa, Creston**—Hearing soon on a number of sewers, both north and south side; address city clerk.

**Iowa, Dubuque**—Hearing April 30 sanitary sewer requiring 300 lineal feet 8-inch tile and 2 manholes; J. J. Shea, city recorder.

**Iowa, Mason City**—Hearing May 11 on advisability of improving lime creek sewer district with 8-inch sewer pipe, 570 feet long; J. H. McEwen, city clerk.

**Iowa, Mason City**—Hearing May 18 on 8 and 10-inch sewer pipe in Willow Creek sewer district; J. H. McEwen, city clerk.

**Iowa, Mason City**—Hearing May 11 on an 8-inch sewer in Lime Creek sewer district; J. H. McEwen, city clerk; also for sewer in Willow Creek district.

**Iowa, Perry**—Hearing May 18, on large amount of sewer work; Adrian Cross, city clerk.



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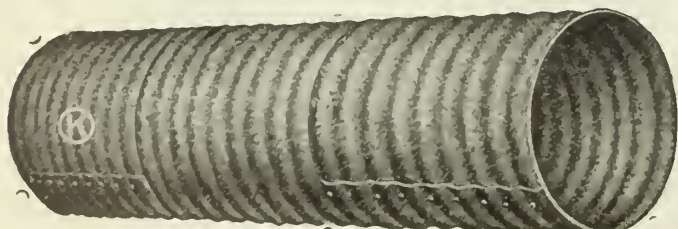
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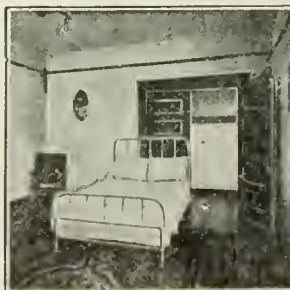
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## BRIDGES

*Notes arranged alphabetically by States.*

**Iowa, Iowa City**—A vote will be taken at primary election on construction of a bridge at foot of Burlington st., estimated cost \$50,000.

**Iowa, Mount Ayr**—Board of supervisors resolved to construct 3 concrete and one steel bridge; hearing May 5.

**Iowa, Waterloo**—A concrete bridge to span Bear Creek will soon be built, 2 40-foot spans.

**Iowa, West Union**—Hearing May 4, on construction of 3 steel and 14 concrete bridges; I. J. L. Scallon, county auditor.

**Minn., Cambridge**—Minneapolis Bridge Co. received contract for state bridge No. 1095 at \$2,689.

**Minn., Mankato**—Wm. Eberhart and others petitioned county board for bridge at Nichols' ford in Rapidan.

**Mont., Butte**—Designs for Bi-county bridge, Big Hole river, by county surveyor, W. T. George, accepted; bids soon called for.

### BIDS WANTED.

**Iowa, Harlan**—Bids received by E. A. Schell, county auditor, for 2 steel bridges, 70 feet, 16-foot roadway, erected on steel caissons, 1 70-foot steel bridge, 16-foot roadway, concrete abutments, 1 concrete bridge, 26-foot roadway, 12-foot span; check for \$600; C. E. Wright, county engineer.

**Iowa, Leon**—Bids received by W. M. Frost, chairman, 1 p. m., May 4, for a 30-foot girder concrete bridge, 18-foot roadway, at Leon, also for steel 50-foot span, concrete substructure, concrete floor at Davis City; price of extra concrete per cubic yard in place; price of piling per lineal foot in place if needed.

**Iowa, Mount Ayr**—Bids received by T. W. Napier, county auditor, 12 m., May 5, for one 60-foot span, 16-foot roadway, steel bridge with concrete abutments; check for 5 per cent.

**Iowa, Waverly**—Bids received by W. H. Pockels, county auditor, 2 p. m., May 4, for two reinforced concrete piers and abutments section 16-22-14.

**Minn., Ada**—Bids received May 19, for two bridges and at July meeting of county board contracts will be let for 3 cement bridges.

**Minn., Bagley**—Bids received by H. K. Rude, county auditor, 2 p. m., May 5, for building state bridge No. 1237, will be 23-foot roadway, concrete floor; check for 5 per cent; plans by state highway commission.

**Minn., Brainerd**—Bids received J. F. Smart, county auditor, 2 p. m., May 5, for 1, 12-foot span across Mud Creek on state road No. 2, 18-foot roadway; 1, 4 panel span 50 feet across Nokasippi on state road No. 1; one 30-foot span and 2 20-foot approaches across Little Pine river on state road No. 3; plans at office of state highway commission, 300 Shubert building, St. Paul; check for 10 per cent.

**Minn., Crookston**—Bids received by H. J. Welte, 2 p. m., May 25, for constructing reinforced concrete culverts on various roads in county; check for 5 per cent.

**Minn., Duluth**—Bids received by O. Halden, county auditor, 2 p. m., May 5, for steel, reinforced concrete or timber bridge on West Pipe river road; check for 10 per cent.

**Minn., Duluth**—Bids received by O. Halden, auditor, 2 p. m., May 5, for furnishing to St. Louis county, cast iron culverts for road work for the year 1914; standard sizes from 8 inches to 48 inches; state whether nested or solid.

**Minn., Hastings**—Bids received 10 a. m., May 14, for furnishing a steel pin connected truss span in section 21, known as state bridge No. 740, on state road No. 10; superstructure 150-foot span, 16-foot roadway; work does not include abutments or any part of substructure, nor reinforcing bars nor concrete floor.

**Minn., Minneapolis**—Concrete or steel bridge will be constructed at 19th av. S., estimated cost of steel, \$225,000, concrete \$418,000.

**Minn., Minneapolis**—Bids received by C. H. Hayes, comptroller, 2 p. m., May 4, for grading track laying and bridging necessary in construction of university farm railway; plans at office, G. A. Sandberg, purchasing officer, 101 Library building; check for 2 per cent.

**Minn., New Prague**—Bids received May 2, 10 a. m., by M. J. Tikalsky, clerk, Lanesburgh township for culverts.

**Minn., Sauk Rapids**—Bids received 1 p. m., May 6, for laying new floor and rail on Sauk Rapids bridge; W. H. Fletcher, chairman.

**Minn., Wabasha**—Bids received 12 m., May 14, for erection of steel and concrete bridges Nos. 827, 1236, 1243 and 1244 and 1261, contractor to furnish all labor and material; check for 5 per cent.

**Minn., Walker**—Bids received by I. P. Byhre, county audi-

tor, 2 p. m., May 9, for construction of three bridges as follows; No. 1169, 20-foot beam span, 18-foot roadway, concrete floor and foundation, bridge No. 1170, 40-foot truss-span, 18-foot roadway, concrete floor and abutments, No. 1171, 40-foot, truss-span, 18-foot roadway, concrete floor and abutments; check for 10 per cent; Geo. A. Ralph, 380 Shubert building, St. Paul, engineer.

**Mont., Billings**—Bids received by C. H. Newman, chairman, 2 p. m., May 9, for two 16-foot and 2 32-foot timber bridges near Pineview; check for 5 per cent.

**Mont., Dillon**—Bids received by Jay Baker, clerk, 10 a. m., May 29, for construction of steel or concrete bridge across Big Hole river near Divide; check for \$250.

**Mont., Glasgow**—Bids received by J. W. Dale, clerk, 10 a. m., May 4, for building concrete bridge over Cherry creek; check for 5 per cent; also for steel bridge over Beaver creek; check for 5 per cent.

**Neb., Blair**—Bids received by Ove. T. Anderson, county auditor, for furnishing all material and building 6-foot reinforced cement arched culvert or bridge; also for a 6x8 reinforced concrete culvert or bridge; bids opened 12 m., May 4.

**Neb., Wayne**—Bids received by Chas. W. Reynolds, county clerk, 12 m., May 8, for 70-foot steel span section 1-26-4; 60-foot span steel in section 23-27-3, and repairing of all bridges for year 1914; check for \$1,000; plans by state engineer, Lincoln, Neb.

**N. D., Forman**—Bids received by D. K. McPherson, county auditor, 2 p. m., May 12, for building all bridges in the county for the ensuing year.

**N. D., Landgon**—Bids received by Elias Porter, chairman, as follows: 16-foot bridge in Minto township, 24-foot bridge in Osford township; 16-foot bridge in Billings township.

**S. D., Chamberlain**—Bids received by John F. Maack, county auditor, 8 p. m., May 4, for construction of all bridges for the county for ensuing year.

**Wis., Barron**—Bids received by J. R. Brown, clerk, 10 a. m., May 5, for construction of a 65x16, concrete and steel bridge over Hay river; bids will also be received for three smaller bridges.

**Wis., Fond du Lac**—Bids received by A. S. Wilkinson, county clerk, 10 a. m., May 5, for building reinforced concrete bridge to town of Empire; check for \$100.

### CONTRACTS AWARDED.

**Iowa, Eddyville**—J. A. Lafferty received contract for all bridges in Monroe county for year 1914.

**Iowa, Rockwell City**—Iowa Bridge Co. got contract for bridge over Coon river at \$10,970.

**Iowa, Waterloo**—Fort Dodge Culvert Co. received contract for culverts for year 1914.

**Minn., Mankato**—Contract for corrugated culverts let to J. J. Brown, Madison Lake.

**Minn., Red Wing**—Contract county bridges let to Illinois Steel Co., Security Bridge Co., and H. Matz.

## DRAINAGE AND IRRIGATION

*Notes arranged alphabetically by States.*

**Minn., Ada**—Viewers of judicial ditch 51, filed report recommending cheaper ditch; cost estimated at \$232,962; benefits not to exceed \$161,000.

**Minn., Blue Earth City**—First hearing judicial ditch 9, 1 p. m., May 9, John E. Flynn, clerk district court.

**Minn., Thief River Falls**—Final hearing, judicial ditch 40, May 7; H. E. Ives, clerk district court.

**Mont., Billings**—Bids were received until 5 p. m., April 28, for construction of Carroll drain, Yellowstone Co., assessment hearing May 28, D. F. Sullivan, county drain commissioner.

### BIDS WANTED.

**Iowa, Garner**—Bids received until 11 a. m., May 11, on construction of improvement drainage district 38, W. L. Fitkin, auditor, Hancock Co.

**Minn., Thief River Falls**—Bids received until 2 p. m., May 5, for constructing ditch 60, Pennington county, no bid over 30 per cent of estimate received; bond with two sureties; estimated cost \$3,675; A. H. Fasel, auditor.

### CONTRACTS AWARDED.

**Ill., Rock Island**—Contract will be let to Littig Bros., low bidder, 90,000 feet earth work, Flint Creek, Iowa, river levee at \$19,087; Camerson, Joyce & Co., Keokuk, \$22,410; Wiseley & Sons, Sheffield, Ill., \$29,684; S. Dolman & Son, Topeka, Kas., \$25,157; Oliver & Costello, Chicago, \$26,480; John Loftus, Burlington, Iowa, \$30,768; F. G. Jamison, Oakville, Iowa, (47,300 yards) \$17,160; List & Gifford Construction Co., Kan-



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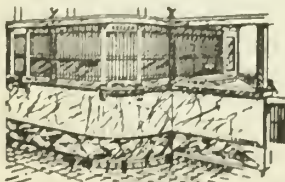
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sas City, Mo., \$23,400; H. J. Peterson & Son, Muscatine, (66,000 yards) \$28,910; C. W. Humbert, Cedar Rapids, Iowa, \$29,700; Hall & Russell, Oakville, Iowa, (66,000 yards) \$28,910; M. C. Connors & Co., Chicago, \$22,050; Ranson & Cook, Ottawa, Kas., \$23,494.

## HOTELS AND HOSPITALS

*Notes arranged alphabetically by States.*

**Iowa, Creston**—J. B. Harsh contemplates enlarging Court hotel.

**Iowa, Grinnell**—Work begun on extension to Hotel Monroe, 90 feet long, 5-story; excavation completed.

**Iowa, Rodney**—Arlington hotel burned; E. D. Edmunds, proprietor.

**Iowa, Sioux City**—Plans for \$20,000 addition to tuberculosis cottage at Sawler's Bluff ordered; matter be taken up at meeting May 4; E. E. Hosmer, county auditor.

**Minn., Fairmont**—Julius Riehs will build 3-story hotel building, excavation now being made; plans not yet drawn, but hotel said to be certain.

**Minn., Little Falls**—Plans under way for tuberculosis hospital for counties of Morrison, Todd, Douglas and Wadena; B. Y. McNairy, county auditor.

**Minn., Marshall**—M. E. Mathews is making arrangements for rebuilding the Athletic hotel; Fred Cook will be manager.

**Minn., St. Cloud**—Extensive repairs and improvements, involving expenditure of \$20,000, to be made on Grand Central hotel; plumbing, etc.

**Minn., Thief River Falls**—Definite steps taken for modern hospital for city; county board will donate \$5,000; address city clerk.

**Mont., Dunkirk**—Yale hotel burned; total loss.

**N. D., Courtney**—Commercial club appointed committee to plan for a modern hotel; address secretary club.

**N. D., New England**—Plans being drawn for hospital to be built by Dr. G. A. Sarchet.

### BIDS WANTED.

**S. D., Sioux Falls**—Bids received by Jos Schwartz, architect, until 2 p. m., May 12, for an addition to Carpenter hotel; check for 2 per cent.

**Wis., Appleton**—Sketches prepared for proposed isolation hospital and addition to poor house, 29x43, 2-story; tile construction, flat roof, fireproof; cost to exceed \$10,000; expected to get out plans and receive bids within one month; Wm. F. Wolf, county clerk.

**Wis., Menomonie**—Bids received by J. R. Mathews, chairman, board public works, until 10 a. m., May 14, for city hospital; 2½-story, brick; F. H. Ellerbe, architect, Endicott building, St. Paul, Minn.; bids wanted for building complete.

### CONTRACTS AWARDED.

**Minn., Bemidji**—Contracts for wiring, Hotel Markham, let to Warfield Electric Co., Bemidji, for \$650 and to J. D. Roberts & Co., St. Paul, for plumbing and heating at \$7,000; Hoaglund Bros., Minneapolis, general contractors.

**Minn., International Falls**—Contract to L. J. Klippen for \$20,000 addition to Rex hotel.

**Minn., Rochester**—Contract for hotel for Roberts Hotel Co. let to G. S. Schwartz & Co., city; 92x78, 5-story and basement and sub-basement; F. H. Ellerbe, architect, St. Paul.

**Neb., Norfolk**—Contract to Orr & Reynolds for new general hospital.

**Wis., Green Bay**—Contract to Nelessen & Eger, Wrightstown, for tuberculosis sanitarium at \$14,667.

## THEATRES AND HALLS

*Notes arranged alphabetically by States.*

**Iowa, Davenport**—Company formed and site purchased for large coliseum; steel and brick, fireproof; Benjamin Gartside, architect; Iowa Coliseum Co., G. G. Petersen, secretary.

**Iowa, Hocking**—Miners' hall burned; loss \$10,000.

**Iowa, Manson**—Plans for extensive improvements in Photoplay building, extension in rear, raised floor, opera chairs.

**Iowa, Rippey**—Plans finished soon for club house built by Odd Fellows; J. C. Woodward, architect, 1282 Canning st., Council Bluffs, Iowa; 1-story and basement, \$10,000.

**Iowa, Wapello**—Plans in progress by S. L. Heaps, architect, German-American Bank building, Burlington, for a moving picture theater for Fred Keck, city; 30x90, 1-story; proposition submitted to citizens for modern theater.

**Minn., Bemidji**—Site for new home for Elks probably be purchased May 6; plans and specifications for building then be asked for from architects; address secretary Elks lodge.

**Minn., LeSueur**—Moving picture show building, owned by

Simon Hogan, burned, loss with saloon adjoining, \$15,000; insurance on theater building, \$3,000.

**Minn., Little Falls**—J. M. Totten will add 50 seats to Milo theater, put in ventilating system and repaint front.

**Minn., Northfield**—Sketches by Frank W. Kinney, architect, Plymouth building, Minneapolis, approved for dormitory for Odd Fellows' home; 40x100, 2-story and basement.

**Minn., Rochester**—Commercial club will remodel second floor of club home at once; address secretary club.

**Minn., Ulam**—Odd Fellows will build second story to Evans building and fit it up for hall; contract let.

**Mont., Geraldine**—Clyde Morrow, Lewistown, Mont., will erect a theater building, 30x90, sloping floor, modern; later Mr. Morrow expects to build modern opera house in Lewistown.

**Mont., Havre**—Aerie No. 166, order of Eagles has appointed committee to take initial steps for 2-story lodge building; C. W. Young, chairman committee.

**Neb., Bloomfield**—Masonic Temple Craft association will build 2-story structure to cost \$8,000.

**Neb., Cambridge**—Opera house burned, together with other buildings, loss \$15,000.

**Neb., Coleridge**—Citizens planning an auditorium to cost \$7,000; address mayor.

**Neb., Fremont**—Plans being prepared by architect for fireproof theater building to be erected by Johnson Farm Co.; address Emil Johnson.

**Neb., Gordon**—Preliminary plans in progress for moving picture theater; C. W. Wigginton, architect, 220 S. 13th st., Omaha; owner's name withheld; 25x100, 1-story and basement; cost \$4,500.

**Neb., Steele City**—Stock company organized to build town hall; address mayor.

**Wis., Beloit**—Plans for Y. M. C. A. building completed by Shattuck & Hussey, architects, 18 S. La Salle st., Chicago; cost \$75,000; J. A. Steiner, secretary.

**Wis., La Crosse**—G. A. Elder, Duluth, and J. J. Nash, Chicago, negotiating for site for theater building to cost from \$55,000 to \$65,000; tentative plans by Percy Dwight Bentley, architect, city.

**Wis., Menomonie**—Excavation begun for moving picture theater which August Schoenoff is building for Fred Haft; 33½x112, 1-story, ornamental front 26½ feet high, seat 478, steel construction; H. T. Liebert, architect, Wausau.

**Wis., Menomonie**—Plans and specifications ordered for the proposed Masonic building; Al. C. Anderson, secretary.

### BIDS WANTED.

**Iowa, Fort Dodge**—The Masonic lodges ready for bids May 11, on lodge building; J. A. Bradford, architect, city; 50x100, brick, cost \$30,000; steel trusses, beams and sash, cast columns, iron joist hangers, lime cut stone and terra cotta, common, pressed and hollow brick, electric light, metal lath, wired, ribbed and art glass.

**Iowa, Lake View**—L. L. Lawrence and C. J. Larson are taking bids on opera house, office and store building, 78x100, 2-story and basement, \$12,000; G. W. Burkhead, architect, Grain Exchange building, Sioux City.

**Minn., Willmar**—Bids received till 2 p. m., May 11, for constructing Masonic Temple; plans by J. E. Nason, architect, Minneapolis; official advertisement in Improvement Bulletin this week.

**Neb., Alliance**—Plans for lodge home accepted by Elks drawn by Rose & Peterson; contract let soon; 1½-story, stone, \$20,000.

**Neb., Bassett**—Bids received by Odd Fellows' lodge until May 12, for lodge building.

**S. D., Howard**—Bids being taken now by Masonic Building association for a Masonic temple; F. C. W. Kuehn, architect, Huron, S. D.; 34x74, 2-story, brick, \$10,000; steel beams, cut lime stone, common and pressed brick, steam heat, electric light, sheet metal skylights and ceiling, shingle roof, common and patent plaster, plate and wired glass, maple floors, yellow pine finish; bids on heating and plumbing taken later.

### CONTRACTS AWARDED.

**Iowa, Dubuque**—Contract for \$75,000 gymnasium for the Dubuque German college and seminary, brick, let to E. P. Strandberg Co., 5010 S. Wabash av.; steam heating and plumbing to Linehan & Moe, Dubuque; electric work to E. P. Smith Electric Construction Co., Dubuque.

**Iowa, Leon**—Contract to Geo. Penniwell to remodel Idle Hour theater.

**Minn., Windom**—Contract let to Erick A. Carlstrom, Mankato, \$8,250; for theater building owned by Redding & Stroud.

**Neb., Ainsworth**—Contract for Odd Fellows' building to Floyd Birdsall; 2-story, full basement, red brick and tile, pressed brick front.

**Wis., Sheboygan**—Contract to Gus. Hoefer for Moose hall at Moose park.



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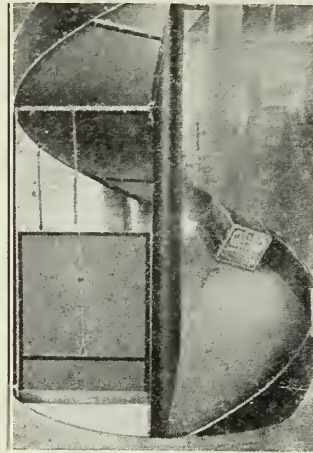
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## PUBLIC BUILDINGS

*Notes arranged alphabetically by States.*

*Items marked with asterisks not in Daily Sheets.*

**Iowa, Marshalltown**—Reported active operations soon begin on building armory for company C; 70x140, 3-story, brick floor to be hung on girders from roof.

**Iowa, Montezuma**—J. J. Lang, architect, St. Louis, Mo., ordered by board to prepare plans and specifications for county jail; 2-story, fireproof; \$5,000; concrete, steel girders.

**Iowa, Primghar**—County board planning to build \$4,000 addition to court house; J. B. Stamp, county auditor.

**Iowa, Sioux City**—Woodbury county will vote on \$650,000 bond issue for court house June 1; probably competitive plans; E. E. Hosmer, auditor.

**Minn., Hibbing**—Steps taken for a city hall and jail; Robert L. Geiselman, chairman of committee appointed to secure site and report to the council; address city clerk.

**Neb., Hartington**—Word received that \$8,000 would be appropriated for Carnegie library; address city clerk.

**Neb., Nebraska City**—A national guard armory to cost \$20,000 will be voted on this year; address city clerk.

**Neb., O'Neill**—Reported court house must be remodeled or new building erected; address county clerk.

**Neb., Stanton**—Carnegie library foundation has appropriated \$8,000 for a public library; address secretary library board.

**N. D., Langdon**—Commissioners decided not to build jail and sheriff's residence this year, and voters will express themselves on proposition this fall.

**Sask., Yorkton**—Land titles office erected here this summer; address the Reeve.

**Wis., Black River Falls**—The Carnegie library foundation will give \$10,000 to the city for library on usual terms; address city clerk.

### BIDS WANTED.

**Iowa, Atlantic**—Bids received by W. C. Williams, custodian, until 2 p. m., May 13, for repairs and painting U. S. postoffice.

**Iowa, Boone**—Bids soon taken on \$200,000 court house; G. H. Getty, county auditor.

**\*Minn., Lake City**—Bids received by O. Wenderoth, supervising architect, Washington, D. C., until 3 p. m., June 10, for United States postoffice building. Officially advertised in this issue of the Improvement Bulletin.

**Minn., Minneapolis**—Bids received by E. C. Gale, chairman, building committee, library board, until noon, May 6, branch library building, at 4th av. and 36th st.; check for 5 per cent.

**Minn., Sanborn**—Bids received by D. G. Klein, village recorder, until 8 p. m., May 18, for a village "lock-up"; check \$300; F. W. Kinney, architect, Plymouth building, Minneapolis; officially advertised in this issue of the Improvement Bulletin.

**\*Minn., Willmar**—Bids received by state board of control, Capitol building, St. Paul, Minn., until 2 p. m., May 12, for boiler, stoker, ash lift, etc., for hospital for inebriates; check for 5 per cent. Officially advertised in this issue of the Improvement Bulletin.

**Neb., Broken Bow**—Bids received by W. H. Osborne, Jr., county clerk, until noon, May 4, for steel cell work, cell fixtures and plumbing for county jail; check 5 per cent.

**Neb., Gothenburg**—Bids probably asked for in about 60 days for Carnegie library building; plans started by W. F. Gernandt, architect, 513 Karbach building, Omaha, Neb.; 58x34, 1-story and basement, \$8,000; brick and stone, semi-fireproof; bids taken by architect; steel beams, iron joist hangers, gypsum block fireproofing, cut lime stone, common and pressed brick, grey color, steam heat, city water, electric light, sheet metal cornice, composition roof, patent plaster, plaster board, metal lath, corner bead, pure white lead and oil paint, plate, wire and ribbed glass, composition floors, oak finish; Miss Nora Janssen, secretary of committee.

**N. D., Cooperstown**—Bids received by H. S. Rearick, county auditor, until 1:30 p. m., May 11, for a fireproof vault attached to court house; check \$200.

**N. D., Landa**—Bids received by T. T. Clevan, clerk, Eids-vold township, Bottineau county, until 1 p. m., May 17, for town hall; check \$100.

**N. D., Mott**—Bids received by W. F. Griswold, county auditor, until 2 p. m., May 18, addition to north end of court house; check \$200.

**Sask., Fort Qu'Appelle**—Bids received by C. Stanton, assistant deputy minister of Marine and Fisheries, Ottawa, Can., for fish hatchery and superintendent's dwelling.

**Wash., Spokane**—Bids advertised for at once for north

branch library, plans approved, cost \$17,500; address secretary board.

**Wis., Independence**—Bids received by Jacob Jackson, village, clerk, until 8 p. m., May 14, for a reservoir roof; plans by Geo. P. Bradish, La Crosse; check 5 per cent; officially advertised this issue Improvement Bulletin.

### CONTRACTS AWARDED.

**Ida., Boise**—Contract to Carl Prouty, city, for fireproof addition to Carnegie library at \$9,875; Hummell & Tourtelotte, architects.

**Mont., Dillon**—Contract to Wm. G. Reed, city, for city hall building, \$27,930; Fred F. Willson Co., architects.

**Mont., Livingston**—Contract with B. C. Cress, jail at Willsall, to cost \$765; also contract with A. W. Miles Co. and Wolcott-Blair Co. for various tools, implements, etc.

**Neb., Hooper**—Contract with W. J. Crendon Co., Neligh, Neb., for city hall at \$6,648; face brick by Hydraulic Press Brick Co.

**Neb., Red Cloud**—Contract with Rowles Co., Onawa, Iowa, for Webster county court house and to City Plumbing & Heating Co., Boulder, Iowa, for heating and plumbing; W. F. Gernandt, architect, Karbach building, Omaha.

**Ont., Fort William**—Contract to Thunder Bay Construction Co. for sea wall near mouth of Mission river at \$340,000.

**Wis., Lancaster**—Contract to Samuel Pennock, city, for porch and shingling residence of sheriff at \$985; H. Klein Co., architect, Platteville, Wis.

## SCHOOLS

*Notes arranged alphabetically by States.*

*Items marked with asterisks not run in Daily Sheets.*

**Alta., Lethbridge**—An agriculture school and demonstration farm will be erected south of here.

**Alta., Medicine Hat**—School board decided on addition to Alexandria school, \$70,000, at once.

**Iowa, Cedar Falls**—Mortimer B. Cleveland, architect, Waterloo, Iowa, prepared plans for a gymnasium and grade building, for schools, 2-story, brick; bids taken by architect.

**\*Iowa, Cedar Falls**—M. B. Cleveland, Waterloo, architect, will furnish plans for school, East Cedar Falls, and gymnasium on high school grounds.

**Iowa, Charter Oak**—Site for Catholic school was laid out and work will commence soon.

**Iowa, Colesbury**—A 2-story brick school house will be built independent district Colesbury; plans by architect Mortimer B. Cleveland, Waterloo, Iowa, 50x80; cost \$10,000; steel, common brick, steam heat, composition roof, common plaster, corner bead, pine finish, rolling partitions; bids taken by architect, until June 1.

**Iowa, Dows**—Plans prepared by architect J. W. Bradford, Ft. Dodge, Iowa, for a school building, 100x60; cost \$30,000; steel beams, iron joist hangers, fire escapes, reinforced concrete fireproofing, lime cut stone, common, pressed brick, hollow, steam blower heat, electric lights, sheet metal cornice, 2 ventilators, asbestos shingle roof, metal lath, corner bead, plate glass, slate blackboards, composition roof, birch finished; bids taken by architect, until May 14.

**Iowa, Dubuque**—Foundation in for \$60,000 gymnasium, German Presbyterian college.

**Iowa, Dubuque**—Excavation has begun for the gymnasium of the German college, \$60,000.

**Iowa, Manilla**—Proposition taken up for a parochial school by the Sacred Heart congregation.

**Iowa, Sanborn**—Independent school district voted \$20,000, for repairing building and erecting addition.

**Iowa, Ward**—Architect Issenhuth of Huron has contract for school plans.

**Kas., Barnes**—A 2-story and basement public school building will be built, brick, 80x52; cost \$18,000; contract let in about 30 days; plans by W. F. Gernandt, architect, 513-14 Karbach building, Omaha, brick and concrete foundation, press brick, Bedford stone, asphalt roofing, brick cornice, d. s. and plate glass, hard wall plaster, steam heat, yellow pine floors and finish, boilers, black boards, cementing, fire-escapes, fireproofing, hollow tile, iron beams and stairs and columns, wire lath, seating 200; ventilators.

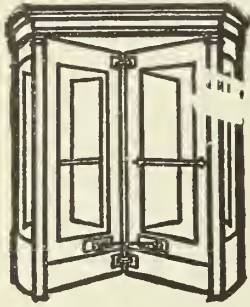
**Minn., Faribault**—North wing for school for blind will be rebuilt, brick, 3-story, fireproof; south wing to be remodeled and made fireproof.

**Minn., Faribault County**—District No. 127, one-room frame school building; clerk, O. J. Seberg, Kiester, Minn.; plans approved by state commissioner.

**Minn., Glencoe**—Board of education will install in their school buildings, sanitary system contemplated last year;



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BANK, OFFICE AND STORE FIXTURES. All classes of high-grade cabinet work and interior finish. NATIONAL AND MARBLE AND SHATTUCK OFFICE FURNITURE. Designs and estimates submitted on wood, marble and tile work.



including plumbing, ventilating, of same complete with the Imhoff septic tank for sewage disposal, school building, altered, work to begin at close of school year, Walter Stone, Pardee, architect, Wayzata, Minn., R. D. No. 3.

**Minn., Madison**—Local committee has Catholic school plans; advertised soon.

**Minn., Stearns County**—District No. 206, 1-room frame school building; clerk, John F. Heinz, Albany, Minn.; plans approved by state commissioner.

**Minn., West Duluth**—August Firestone, Ashland, Wis., has contract for plastering new high school here; 20,000 yards.

**Mont., Goldstone**—Two new school houses will be built here.

**Mont., Livingston**—Bids recalled for concrete work on school until a complete set of plans are received; E. M. Sybert, clerk.

**Mont., Red Lodge**—School board is considering advisability of erecting a 1-story school for manual training hall; C. C. Bowlen, president school board.

**Neb., Carroll**—Plans completed for \$16,000 school building building this spring.

**Neb., Gibbon**—School district No. 8 is contemplating modern school.

**Neb., Grant**—Contractor Mowry's brick layers have commenced work on school building.

**Neb., North Platte**—A new school building is contemplated at O'Fallens.

**Neb., Shelton**—School district No. 8, may build.

**Neb., Upland**—\$11,000 school bonds voted and carried.

**N. D., Clyde**—Will build a 2-story school building, rejected all bids; will advertise bids for bigger building, as soon as plans are completed; A. B. Thusen.

#### BIDS WANTED.

**\*Iowa, Batavia**—Bids received by Chas. Frescoln, president school board, until noon, May 30, for a 2-story, brick school house. Check for \$900. Officially advertised in this issue of the Improvement Bulletin.

**Iowa, Chariton**—Bids received until May 22, 1 p. m., for addition or annex to school building; P. T. Perry, secretary.

**Iowa, Fort Dodge**—Bids received until 7:30 p. m., May 5, by Independent school district of Fort Dodge for following: a cement curb around track at athletic field, at Duncombe school; a cement sidewalk at Pleasant Valley school, cement retaining wall at Riverside school; separate bids on each; plans with J. W. Bradford, architect, J. L. Porter, secretary.

**Iowa, Garner**—Bids received by J. N. Sprole, president, until May 22, for high school building; officially advertised in this issue of the Improvement Bulletin.

**Iowa, Marshalltown**—Bids received on school at Melbourne, Iowa, to 1 p. m., May 16, plans may be secured of secretary L. J. Wallace, Melbourne, Iowa, or B. F. Kemper, architect, Marshalltown, Iowa, \$10 deposit.

**Iowa, Perry**—Bids received until 1 p. m., May 25, for a school in Independent district of Prairie Grove, Iowa township; Chas. R. McCann, secretary.

**Iowa, Toledo**—Bids close May 4, on school; Proudfoot, Bird & Rawson, architects, 810 Hubbel building, Des Moines. Iowa, brick and stone, 160x70, cost \$70,000; fireproof corridors, steel beams, cost columns, ornamental iron stairs and fire escapes; architect brick, electric lights, skylights, comp. roof, common patent plaster, metal lath, corner bead, slate blackboards.

**Iowa, Turin**—Bids received until 1 p. m., May 9, for addition, public school; architect, F. E. Colby, Sioux City; plans with secretary, R. M. McCollum, check 3 per cent.

**\*Minn., Clarissa**—Bids received by L. D. Thayer, clerk, independent school district No. 67, until 3 p. m., May 20, for school building. Check for 5 per cent. Officially advertised in this issue of the Improvement Bulletin.

**Minn., Granada**—Bids received by C. C. Chamberlain, clerk, until 10 a. m., May 6, for heating, ventilating and plumbing of school building, check 5 per cent; officially advertised in this issue of the Improvement Bulletin.

**Minn., Melrose**—Bids received until May 8, 8 p. m., for school mill construction; Stearns county; check 3 per cent; W. J. Stephens, clerk.

**Minn., Waseca**—Bids received until 8 p. m., May 11, for painting of school building, material used, Adelite, waterproof cement, and brick coating; check 3 per cent; C. H. Bailor; clerk, board education.

**Mont., Harlowtown**—Bids received until May 1, for a school building in district No. 20; plans with A. J. Dreyer, Harlowtown, Carl B. Schmelling, clerk.

**Neb., Madison**—Bids received until May 19, 9 p. m., for heating and plumbing in high school; check 3 per cent; S. C. Blackman, secretary, John Latenser, architect, Omaha, Neb.

**Neb., Upland**—A 3-story brick school building will be built, plans by architect C. W. Way Co., Hastings; cost \$15,000; 63x66; bids taken by architect until noon, May 11.

**N. D., Carbury**—Bids received until 7 p. m., May 15, for a 4-room frame school building, stone and concrete basement; may be bid on separately; check 5 per cent; plans by architect, Ed. White, Bottineau, N. D.; O. O. Weber, clerk; officially advertised in Improvement Bulletin.

**N. D., Glenburn**—Waterford township will vote on site and \$4,000 school bonds April 30.

**N. D., Lidgerwood**—Plans prepared by architect John K. Van Ess, Aberdeen, S. D., for a parochial boarding school, 2-story and basement, brick, 64x56, cost \$16,000, iron stairs; bids taken by building committee until May 6; Rev. P. A. Duerr, pastor.

**N. D., Riga**—Petition circulated for a new school.

**S. D., Marion**—Plans being prepared for a school building cost \$11,000, 5-rooms, gymnasium, pressed brick.

**Wis., Appleton**—A new chapel will be erected for Lawrence college within two years; announcement by Dr. Wilson Naylor.

**Wis., Endeavor**—Academy addition bids rejected, construction will proceed; Mr. Knudson in charge.

**Wis., Merrill**—School district No. 8, towns of Rock Falls and Merrill, have voted to build \$2,000 school, modern.

**Wis., Oconto Falls**—Anderson & Williams, architects, Green Bay, Wis., preparing plans for a 2-story brick school building, 68x180; cost \$30,000, lime cut stone, common brick, steam heat, composition roof, patent plaster.

**Wis., Prairie du Sac**—Vote carried for a \$20,000 school building on Marion Park site.

**N. D., Gladstone**—Bids received until 2 p. m., May 16, for a school house, Stark county, N. D.; plans with clerk, G. S. Cryne, or at office of secretary, Elks building; C. C. Turner, Dickinson, N. D.

**N. D., Maddock**—Bids received until 1 p. m., May 25, for completion of a brick school, Viking school district, Benson county; check \$500; heating, ventilating and plumbing bids separate; check \$100; plans at office of clerk I. J. Hauge; plans at Builders' Exchange, Maddock, N. D., Grand Forks, N. D., Fargo, N. D. and Minneapolis, Minn.; J. W. Ross & Son, architects, Grand Forks.

**S. D., Stratford**—Bids received until May 1, 8:30 p. m., for furnishing labor and material to finish west school room, Stratford independent school district; plans with clerk; check 10 per cent; F. H. Erdman.

**Wis., Evansville**—Bids are being received now for heating plant in school district No. 6, by board of education, close May 2; 1-story, 40x40; plans by architect, W. H. Blair, Janesville, Wis.; common, hollow brick, steam blower heat; W. E. Green, clerk.

#### CONTRACTS AWARDED.

**Iowa, Arcadia**—General contract on school building, awarded to Kramer & Stevens, St. Charles, Minn., at \$29,440; heating, to Thomas Heating Co., Racine, Wis., \$6,847; plumbing to Thill Manning Whalen Co., La Crosse, \$810; Parkinson & Dockendorff, architect.

**Iowa, Exira**—The contract for furnishing the steel for the school building at Exira, was awarded to the Des Moines Structural Steel Works, Des Moines, Iowa. J. W. Laurensen, Atlantic, Iowa, general contractor.

**Iowa, New Market**—Contract let to W. E. Oxford for school in district No. 6; and to Fields & Worts, for school in district No. 3.

**Iowa, Tracy**—Contract awarded to C. Grubb, Tracy, for school building; owner bids received were: Buckler & Robertson, Oskaloosa, Iowa; P. W. Sparks, Oskaloosa; Cal. W. Guthrie, Albia, Iowa; Hansen Construction Co., Des Moines, Iowa; D. A. Enslow, Chariton, Iowa; Western Construction Co.; J. W. Hopp Construction Co., Cedar Rapids, Iowa; K. Verhey & Son, architects, Pella, Iowa.

**Minn., Pine City**—G. W. Carlson, Cambridge, Minn., who was awarded contract for high school, 4-room, brick, \$25,000, wants bids on painting and decorating.

**Minn., Plato**—Four room modern school will be built, concrete, fireproof.

**Minn., Soudan**—Contract awarded to Wilcut & Co., contractors and builders for addition to school building, plumbing contract sub-let to a Virginia firm.

**Minn., St. Cloud**—Contract awarded to Ambrose and Edward Wahl, for cathedral high school, at \$47,792.

**Minn., Virginia**—Contracts awarded to John Donlan, of Superior, for general construction on south side school at \$54,390; plumbing, heating and ventilating to the Star Construction Co., Virginia, at \$11,011; John Swanson, Virginia, electric at \$1,875; Bray & Nystrom, architects, Duluth.

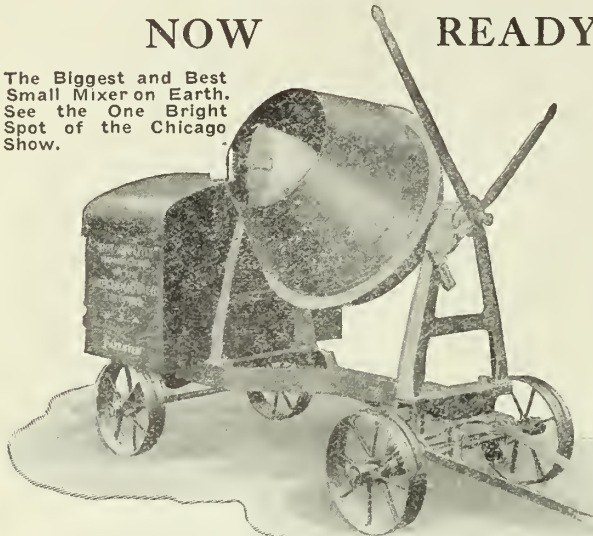
**Minn., Winnebago**—Bids received until 2 p. m., May 8, for a frame school, 24x38, in Delevan township; Wm. Hart, clerk, district No. 35.

**N. D., Ashley**—Contract awarded to C. J. Moore, Ashley, for \$16,750, for new school.



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The Biggest and Best  
Small Mixer on Earth.  
See the One Bright  
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The tremendous enthusiasm shown in the "Big-an-Little" mixer by its users and dealers is indicative of the exceptional advantages which the "Big-an-Little" offers.

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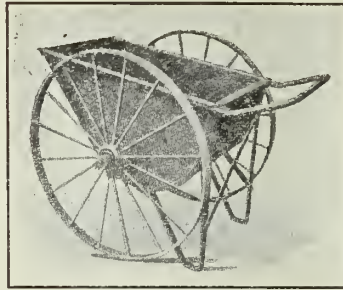
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Capacity 6 cubic feet,  
thin sloppy concrete;  
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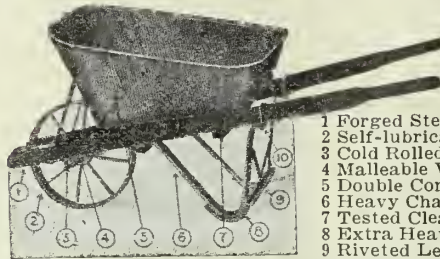


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Easy to set up and  
move. Constructed the  
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rick, but is operated  
by steam, gasoline or  
other power. Equip-  
ped with an automat-  
ic stop to prevent the  
boom from swinging.  
Weight of complete  
derrick, 225 pounds.  
Capacity 1,500 pounds.



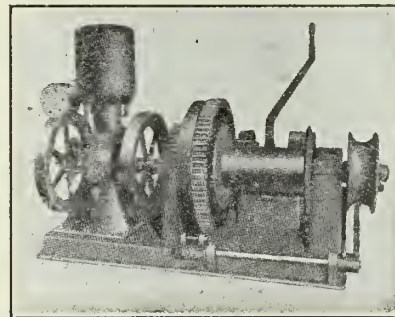
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- 1 Forged Steel Wheel Guard
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### NOVO Rayco Hoisting Outfit

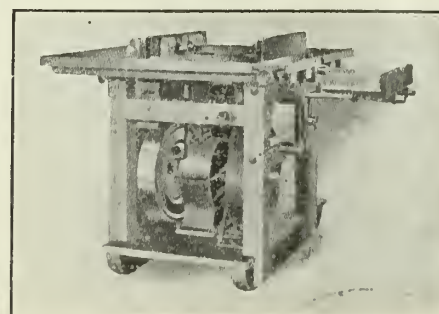
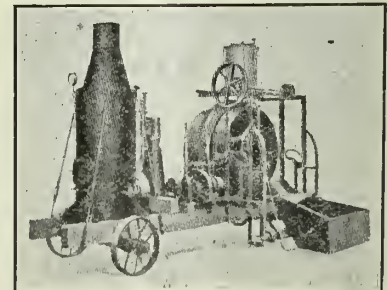
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Boring, Joint-  
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ST. PAUL, MINN



**Mont., Wisdom**—Contract awarded to Frank Dirrer, contractor, city, for school house, \$12,000.

**N. D., Fargo**—T. P. Riley, awarded contract for plumbing, heating, Sacred Heart academy, \$24,900.

**Sask., Regina**—Contract awarded to R. J. Leck & Co., for \$147,800, for ladies' residence and towers at Regina college.

**S. D., Colome**—New school contemplated.

**S. D., Gayville**—Anton Rostad of Vermillion, contractor got contract for the school here; A. R. Richardson, Vermillion, heating and plumbing contract; F. C. W. Kuehn, architect, Huron, S. D.

**S. D., Vermillion**—Contract awarded to A. M. Wold Construction Co., Brookings, S. D. for chemistry building at state university, at \$74,660.

**Wis., Eau Claire**—Contract awarded to Hoepfner-Bartlett Co. for superstructure, new normal school; steel, Illinois Steel Co.; 4,000 barrels cement to Wisconsin Pipe & Fuel Co., city; contract for tile not let; contracts to be let are: woodwork, heating plants, lights, plumbing, tiling.

**Wis., River Falls**—Contract awarded for addition to normal school; plumbing, American Heating Co., superior, \$5,800; electrical Geo. F. Rohn, Milwaukee, \$1,820; tile and marble, Briedster Marble Co., Milwaukee, \$2,058; heating, Thomas E. Hoye Heating Co., \$7,300.

## MILLS AND FACTORIES

*Notes arranged alphabetically by States.*

**B. C., Vancouver**—Fire destroyed saw mill Alberta Lumber Co., False Creek; loss \$150,000.

**Iowa, Council Bluffs**—The Detroit Soda Products Co. will build a modern factory here, 112x140, cement floors, L. B. Algers of St. Louis, president; E. E. Eakes, manager.

**Iowa, Davenport**—The Bettendorf Co., J. W. Bettendorf, president, will build a branch factory in Bethlehem, Pa., 80x220; cost \$150,000.

**Iowa, Davenport**—Capital stock of the Purity Oats Co., increased from \$200,000 to \$500,000, will build large corn and feed mills in connection with present plant.

**Iowa, Estherville**—Fred A. Conery is looking over prospect of locating a factory here.

**Iowa, Estherville**—Main Bros. plan a factory, 36x100, for manufacturing pianos, modern.

**Iowa, McGregor**—The Curtis Bros. Handle Manufacturing Co. will move from Lansing to city, will remodel building.

**Iowa, Muscatine**—Zeidler Concrete Culvert Co. will erect a \$25,000 plant.

**Iowa, Waterloo**—The Lafe Shannon Co. will move their company to Elk Run and erect a new building, 140x50, cement, modern, electrical power.

**Minn., Albert Lea**—Fire damaged mill of Albert Lea Flour Mill Co. about \$5,000.

**Mont., Belgrade**—Work has started on the new culvert plant of Gibson Sectional Culvert Co.

**Minn., Fergus Falls**—Wm. Schuler's bid was low on broom factory building for M. H. Stang and J. G. Durrell, about \$5,500.

**Minn., Floodwood**—Fire destroyed the box mill here, owned by Chas. A. Bartz.

**Minn., Hamel**—A co-operative creamery association was organized, Joseph A. Merz, president; Geo. Cook, vice president and creamery will be built.

**Minn., Hibbing**—Progressive Island Farm Creamery will building a large cold storage plant.

**Minn., Jackson**—Mill of the Jackson Milling Co. burned, valued at \$15,000, insured at \$6,000.

**Minn., Mankato**—Mayer Bros. plan factory.

**Minn., Mankato**—Fire destroyed the feed mill owned by Frank E. Jefferson, of Kerns, Nicollet Co., loss about \$2,000.

**Minn., McGregor**—Creamery burned; loss \$4,000; insured \$2,500.

**Minn., Medford**—A new modern creamery will be erected by the Medford Creamery association.

**Minn., Motley**—J. E. Barr Pickling & Preserving Co., St. Cloud, will erect a pickle factory here.

**Minn., New Ulm**—5-story addition will be built to rye mills, cost \$9,000; general contract let to H. Ibberson, Minneapolis, Eagle Roller Mills Co., owner; Chas. Vogel, secretary.

**Minn., New Ulm**—A new gas plant will be installed here by John Kennedy and J. P. Smith of Virginia.

**Minn., Willmar**—J. B. Nygaard of Eagle Lake, will rebuild his flour mill at Straight River, recently wrecked.

**Mont., Belgrade**—Gibson Culvert Co., of Fromberg, have secured site and will build a large modern plant; cost \$15,000.

**Mont., Dillon**—Col. Lundberg of Gallatin Valley Milling Co. plans to put in a 50-barrel flouring mill here.

**Mont., Glendive**—The Eastern Montana Elevator Co. have plans for modern mill; midget unit type.

**Mont., Great Falls**—Montana Marble & Tile Co. will erect a warehouse and manufacturing plant; W. A. Bugg, manager.

**S. D., Spearfish**—Work will start soon on creamery building for Spearfish Creamery Co.,

**Wis., Green Bay**—An addition will be built to the American Laundry Co. plant, 24x24, August Nitz, contractor, brick and stucco.

**Wis., Oshkosh**—The 2-story frame structure of the Chas. Page Foundry Co. burned, Mrs. Adeline Coates, owner.

**Wis., Peshtigo**—Fire destroyed the Kamps Sawmill at Squaw Point.

**Wis., Rhinelander**—Work has begun on steam laundry building, by C. W. Hawkins, owner.

**Wis., Washburn**—Kenfield-Lamoreaux Co. will build a large box factory here, modern.

**Wis., West Salem**—Fire destroyed the feed mill of Mr. Dieffenthaler; loss about \$4,000.

**Wyo., Laramie**—Alderman William started brickwork on Palmer laundry.

## BIDS WANTED.

**Minn., Silver Lake**—Bids received until 1 p. m., May 6, for creamery; check 5 per cent; plans at Silver Lake Creamery, J. J. Drahos, chairman building committee.

**S. D., Huron**—The Huron Milling Co. are wanting bids for painting their elevator, mill and warehouses, coal sheds, and office, two coats, they furnish paint; bids will be accepted separately.

**Wis., Ellsworth**—Bids received until 10 a. m., May 2, for a creamery building at Lawton, Wis., for the Lawton Co-operative Butter & Cheese Co.; plans by architect Rognan, 9 Detroit building, St. Paul, Minn., Edward Husfoe, secretary.

## ELECTRICAL

*Notes arranged alphabetically by States.*

**Minn., Good Thunder**—Good Thunder Electric Co. recently incorporated has been granted a 30-year franchise to furnish electricity here; plans and estimates for proposed plant are being prepared by B. H. Grover consulting engineer; F. H. Griffin, secretary.

**Minn., Pillager**—Farmers of Birch Hill district have organized the Clover Land Telephone Co., line will run to Pillager and Motley; Roy Jacquith, Chas. Wright, secretary.

**Minn., Preston**—Work on the telephone exchange will begin next week.

**Minn., Vergas**—Installation of an electric light plant under consideration J. E. King, Frazee, interested.

**S. D., Alexandria**—It was voted to erect an electric light and power plant here; cost \$16,000.

**S. D., Hayes**—The Mutual Farmers' Telephone Co. has been incorporated and will build 45 miles of lines.

**S. D., Letcher**—Butler Townsend Telephone Co. incorporated; capital \$25,000; N. M. Steinfield.

**S. D., Spencer**—Stock company formed to provide this city with electric lights; Wm. Hoese, president; secretary H. C. Leuth.

**S. D., Wentworth**—The Battle Creek Telephone Co. is being reorganized.

**S. D., Winner**—Ideal Telephone Co. organized, W. W. Lanker, president, L. J. Auble, secretary; work to begin on line at once.

**S. D., Spencer**—Spencer Light & Power Co. incorporated by Wm. Hoses and others; capital \$10,000.

**S. D., Wessington**—The board of directors of Jerauld County Farmers' Telephone Co. bought 20 rural lines from Wessington Springs Telephone Co.

**S. D., Wessington Springs**—A. H. Savage of Minneapolis is negotiating for purchase of local electric light system.

**Wis., Barron**—J. H. Druar, Oscar Claussen Engineering Co., St. Paul, is making plans for a municipal electric light plant for this city.

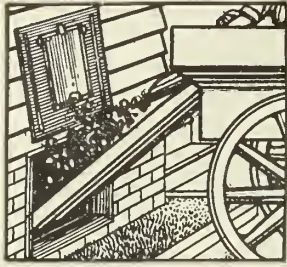
**Wis., Clear Lake**—Work will soon begin on electric system here to be constructed by E. J. Schnelder of Amery.

**Wis., Clear Lake**—Tri-State Telephone Co. has asked for a franchise.

**Wis., Fairchild**—Geo. B. Wheeler representing Chippewa Valley Railway, Light & Power Co. bought the local electric light plant from N. C. Foster. A transmission line will be built to Altoona, through Fall Creek and Augusta.



## WATERLOO CAST IRON Coal Chutes



Protect the house from careless coal men. They are burglar proof--unlock only from the inside.

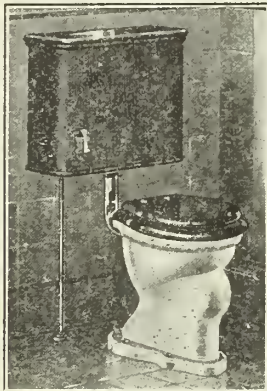
Being made of cast iron are not affected by the weather.

Wire glass in door furnishes light to cellar. When door is open, the glass is protected by heavy steel, which operates automatically.

The watertable at the top of chute protects the inside of foundation from moisture. Doors are extra heavy with three hinges at top and are made with a beaded edge which extends over the border opening, making a tight joint. Are made to fit any depth wall.

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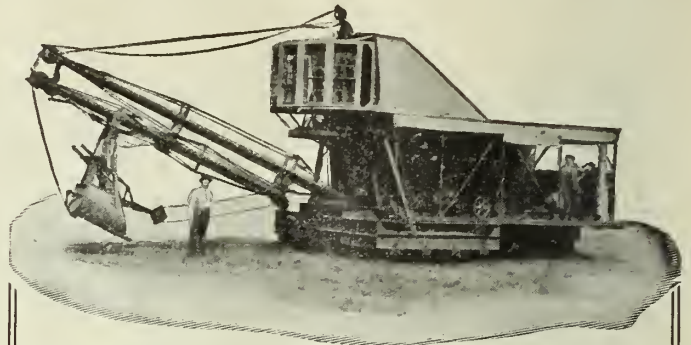
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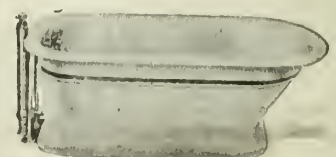


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**Wis., Marshfield**—Rural Telephone Co. voted to issue bonds for \$3,000 for construction work.

**Wis., New Richmond**—Wells Electric Construction Co., organized with capital of \$10,000, P. F. Neverman, president.

#### BIDS WANTED.

**Minn., Chisholm**—Bids received by H. A. O'Brien, 5 p. m., May 13, for 216 100-watt 220 volt Tungsten lamps for white way lighting system; check for 5 per cent.

**Minn., Comfrey**—Date of letting contract for complete electric light plant advanced to 7 p. m., May 4, instead of May 5; see official advertisement in Improvement Bulletin.

**N. D., Mayville**—Bids received by Thos. A. Hillyer, president until noon, May 29, for rewiring normal school building; Hancock Bros., architect, Fargo, N. D.; check \$250; officially advertised in this issue of the Improvement Bulletin.

**Sask., Wapella**—Bids wanted by Walter Miller, box 133, for building Brookside rural telephone system.

**S. D. Tyndall**—Bids received by C. E. Stoddard, county auditor, 2 p. m., May 5, for electric light fixtures for court house; check for \$100.

#### CONTRACTS AWARDED.

**Iowa, Davenport**—Contract for wiring new Blackhawk hotel let to Wm. A. Corrao Electric Co., St. Louis, at \$14,080.

**Iowa, Doon**—A movement has started for electric lights.

**Minn., Hibbing**—Contract for construction of white way let to Home Electric Co.

**Wis., Hayward**—Hayward Electric Light & Power Co. let contract to N. W. Electrical Equipment Co., St. Paul, for hydraulic plant to be erected here.

## CHURCHES

*Notes arranged alphabetically by States.*

**Iowa, Goldfield**—M. E. church may be built, Rev. Hopkinson, pastor.

**Iowa, Oskaloosa**—Church of the Nazarene will build.

**Iowa, Rockford**—M. E. church will be erected here; Rev. Mr. Jayne, pastor; cost \$25,000.

**Iowa, Rockford**—M. E. church to be built, cost \$25,000.

**Minn., Brainerd**—A \$3,000 addition will be built to the Evangelical church.

**Minn., Dunnell**—The German Lutherans will build a church this summer; plans being prepared by architect Patsche.

**Minn., Faribault**—M. E. association plans \$35,000 edifice.

**Minn., Greenbush**—Church will be built here soon.

**\*Minn., Hopkins**—St. Mary's Catholic church will build, modern pressed brick, Kasota stone ledges and arches; cost \$25,000; tower 110 feet high, 600 seating capacity.

**Minn., Kuster**—Improvements will be made to United Brethren church; J. E. Davies, contractor.

**Minn., Minneapolis**—Congregational church at Lake Sarah, Murray Co., burned by lightning; loss \$2,000.

**Minn., Stephens**—Presbyterians plan church soon, funds being raised.

**Minn., Waseca**—St. Paul Lutherans of this city intend to build a church soon; cost \$1,000.

**Minn., Watertown**—All bids rejected on hollow tile and brick church, are having labor done, and furnish material themselves, name of possible men to work; mason, Chas. Gerber, Lester Prairie, Minn., carpenter, E. Palmer, Watertown, Minn.

**Mont., Billings**—Foundation work has begun on new German-Russian Congregational church, frame, 75x40; Rev. W. L. Reiser, pastor.

**Mont., Bozeman**—South Methodist church planning a larger church.

**Mont., Cascade**—A Catholic church will be erected here, 125x125; J. W. Theisen, Great Falls, architect, Thomas O'Donnell, chairman.

**Mont., Cascade**—Catholics will build modern church, 28x50, \$2,500; plans completed; Wm. Pepworth, B. J. Monroe, committee.

**Mont., Lewistown**—Catholic church building will be erected here.

**Mont., Willow Creek**—Ground was broken for M. E. church, concrete, block, 40x50, full basement, modern.

**Neb., Beatrice**—Plans being prepared by architect W. F. Gernandt, 513 Karbach building, Omaha, Neb., for a 1-story and basement church, frame for German Lutheran congregation; Rev. P. Matuschka, pastor and chairman, Plymouth; cost \$50,000, 50x30, brick and concrete foundation, press brick, Bedford stone, d. s. and art glass, hard wall plaster, hot air heat; yellow pine floors, yellow pine and oak finish, cementing, decorating, hollow tile, iron beams, metal or wire lath, ventilators, pews, contract to be let in about 30 days.

**Neb., Dwight**—Architect Craddock, Omaha, is figuring on church to be built here.

**Neb., Oakland**—The M. E. church are planning to build.

**S. D., Tabor**—Plans have been made for new Presbyterian church in community west of town.

**Wis., Glenwood City**—United Lutheran church will build a concrete basement under entire church; walls above ground of cement block.

**Wis., Green Bay**—Rev. Father O'Brien of St. Patrick's church has plans for several improvements to interior of church.

**Wis., Madison**—Lightning destroyed Christ Presbyterian church; loss \$30,000.

**Wis., Marshfield**—Building committee of St. Paul's Evangelical church decided to build new church.

**\*Wis., Oshkosh**—Work started on \$20,000 church, Evangelical Emmanuel congregation.

**Wyo., Meeteetse**—Active preparations are being made for new Episcopal church here.

#### BIDS WANTED.

**Minn., Plato**—Bids on church building changed from May 7, to May 22, Plato, Minn., Rev. August Zielenske, pastor; Albert Shippel, architect, Mankato.

**Mont., Missoula**—Bids received until May 5, 8 p. m., for remodeling old Episcopal church; plans on file with Ole Bakke, Gibson block, Missoula; check \$300; M. R. Hardenburgh, clerk; school district No. 1.

#### CONTRACTS AWARDED.

**Iowa, Marshalltown**—Contract awarded to Elmer Peterson, for the construction of the Elim Norwegian church, 42x70, seats for 800, brick and stone facing, foundation faced with brick, above to be variegated, Bedford stone trim, slate roof, steeple, modern.

**Iowa, Ocheyedon**—Contract awarded to Claus Construction Co. of Sibley, Iowa, for new Christian Reform church.

**Minn., St. Cloud**—Contract awarded to Arthur Hussey for decorating of new auditorium of the St. Cloud M. E. church, quarter sawed-oak pews will be installed.

**Minn., Tracy**—Contract awarded to contractor A. O. Dahl-trop, city, for construction of full basement for Norwegian church, and other improvements; cost about \$2,000.

## ELEVATORS

*Notes arranged alphabetically by States.*

**Iowa, Halbur**—A farmers' elevator will be erected here.

**Iowa, Hepburn**—G. W. Carter is contemplating erecting new elevator at Clermont, Mo.

**Iowa, LeRoy**—The Talbot Grain Co., are constructing a grain elevator.

**Minn., Annandale**—Farmers here plan a potato warehouse.

**Neb., Adams**—The Farmers' Elevator will rebuild after fire.

**S. D., Clear Lake**—Oscar Carlson will build an elevator, 28 x26.

#### CONTRACTS AWARDED.

**Iowa, Bedford**—A. A. Leet will erect a grain elevator; a foreign construction company has contract.

## GARAGES AND BARNs

*Notes arranged alphabetically by States.*

**Iowa, Council Bluffs**—L. McDaniel, garage.

**Iowa, Delaware**—Work has begun on the Sackett garage.

**\*Iowa, Independence**—Harry C. Netcott, architect, Independence, Iowa, prepared plans for a 2-story brick garage, semi-fireproof, 83x100, cost \$20,000; contract let to Quality Construction Co., Independence, Iowa; steel frame trusses, beams and cast columns, cash, iron joist hangers, reinforced concrete fireproofing, lime cut stone, common, pressed and hollow brick, electric lights, steam heat, sheet metal ceiling and skylights, composition roof, patent plaster, metal lath, corner beads, platte, prism, wired and ribbed glass, tile floors, birch and composition floors, yellow pine finish, electric auto elevator, freight, gasoline storage.

**Iowa, Nora Springs**—A modern garage will be built by R. I. Pollock and Rudolph Ahrens, cement block.

**Iowa**—Following will build garages: Roland—Paul Knudtson, modern. Davenport—Charles Schick, completed plans for P. C. Peterson Auto Co.'s \$15,000, brick, modern.

**Iowa, Stratford**—Fire destroyed the livery barn here; total loss \$10,000.

**Minnesota**—Following will build barns: Morgan—Fred





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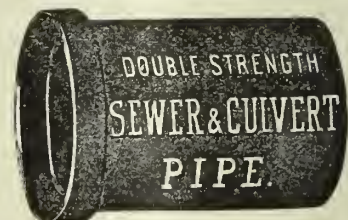


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Dietzman, barn. Austin—Maple City, (not P. O.)—John Proschner, barnfi modern.

Minnesota—Following will build garages: Kerkhoven—Irgens & Osflund, modern. Wabasha—Gilbert & Schmidt, concrete floors and basement.

Minn., Adams—Sjobakken & Sons will build a garage, 44x52, to be ready June 1.

Minn., Brewster—A. C. Severson is building modern barn.

Minn., Claremont—W. Y. Parsons will build a modern garage.

Minn., Graceville—A large fireproof garage will be erected here for Cota Bros., cost \$30,000.

Minn., Granite Falls—B. E. Nelson will build a 2-story garage.

Minnesota—Following will build garages: Roseau—C. Klingard and A. O. Westad. New Richland—J. A. Tyrholm, modern. Milan—J. A. Anderson. Starbuck—Andrew Johnson, modern. Staples—Desmaris Bros. Adams—Sjobakken & Sons. Willmar—Samuel Osmundson, brick, 2-story, modern. Willmar—John Skoolheim, contract for 2-story pressed brick for Handy-Lewis Motor Co. Biwabik—Range Motor Co., modern. Long Prairie—Krause Auto Co., modern.

Minnesota—Following will build barns: Orin—Ernest Sturgis. Chatfield—Andrew Anderson. Wadena—Leider Bros., S. D. Keochel. Eugene Moates, modern; Oscar Bjorklund, modern; Elof Mollerstrom & Herman Bolland, Aug. Westad, 2-story, hiproof. Fergus Falls—M. D. Curry, brick. Hector—J. P. Anderson, modern.

Montana—Following will build garages: Havre—L. Minugh large modern. Lavina—Anton Jensen, contractor, for addition to Lavina garage.

North Dakota—Following will build barns: Nome—Thos. Casey, large modern. Rolette—Leon McDonnell.

Wisconsin—Following will build barns: New Richmond—A. T. Johnson, modern. Prestigo—Jos. Desroches, modern.

Wisconsin—Following will build garages: Bayfield—Wm. Sinclair. Iron River—Geo. Dargie, public garage. Elkhorn—F. H. Marty, 2-story modern. Plymouth—The Daicher & Arndt Co., modern.

## RAILROADS

*Notes arranged alphabetically by States.*

Iowa, Milburn—M. & St. L. station burned.

Iowa, Mason City—Great Western station will be built this summer; plans out; contract let soon; brick, modern.

Minn., Aitkin—Soo surveyors are at work for a line Deer River south through Remier and then to southwest corner Mille Lacs lake; part of line proposed to connect Twin Cities with Canadian border.

Minn., Bingham Lake—Omaha road station burned; loss \$3,000.

Minn., Hibbing—Great Northern probably will build a new station.

Minn., Plainview—N. W. road has started work on new station.

Minn., Sandstone—Viaduct abandoned for the present by G. N. but roundhouse will be enlarged and yards increased.

Mont., Butte—About \$2,500,000 will be spent within next 12 months building Butte & Wisdom road; English capital; Lieut. Geo. W. R. Allen, Helena, interested; general contract to McArthur, Perks & Co., England.

Mont., Thompson Falls—Financial arrangements for Spokane, Wallace & Interstate are made says Spokane announcement; cost \$5,000,000.

Neb., Emerson—The Omaha may build a new station and seven stall round house.

N. D., Bismarck—State railroad commission ordered new stations at Karnak and Clifton on Surrey cut off, G. N.; stock yards repaired, Hatton and Kempton; side track, loading platform, between Vance and Prosper new station McGregor, stock yards, Williston, Trenton, Spring brook, Epping, Wheelock and Tioga, new station, Greene, Wheatline, of the Soo. loading platform divide, N. P.

N. D., Minot—Soo line announced extension on Ft. Berthold will be built at once; Makoti to Missouri river, 32 miles.

Wis., De Pere—Plans received for new N. W. station, to be built this summer; 40x135, brick, brick platform, cement curb.

Wis., Eau Claire—Sub-way favored for Dewey st., at second hearing by state railroad commission; cost about \$79,900; Omaha road and city interested.

Wis., Sun Prairie—St. Paul road has been ordered to build a

## MISCELLANEOUS

*Notes arranged alphabetically by States.*

\*Ont., Fort Frances—City will install a garbage incinerator; C. E. Perry, town engineer.

\*Wis., Sheboygan—The Sheboygan Coal Co. having improvements to their dock property made by Wisconsin Dredge & Dock Co., at cost of \$10,000; structural iron.

## PARKS AND CEMETERIES

*Notes arranged alphabetically by States.*

Minn., Hibbing—Bids received until 5 p. m., May 13, for 320 park benches, for Bennett Park, benches to be 5 feet long cast or malleable iron legs, hardwood slats seats and backs, all to be delivered by July 1, 1914, f. o. b. cars, Hibbing; check 10 per cent; R. R. Thomas, secretary, park board, Hibbing.

## BUSINESS BUILDINGS

*Notes arranged alphabetically by States.*

Iowa, Council Bluffs—Plans are being prepared for two or three-story building for Cornish estate; cost about \$60,000; brick and steel, modern; plans by architect F. E. Cox.

Iowa, Council Bluffs—The interior of the Savings State Bank will be altered, tile floors, decorations, lighting fixtures, etc., cost \$6,000.

Iowa, Council Bluffs—The Conrad Geise Bottling Co. will build a brick, 2-story and basement building; cost about \$6,500.

Iowa, Des Moines—The steel for the Merchants' laundry building in East Des Moines, Iowa, is being furnished by Des Moines Structural Steel Works.

Iowa, Dysart—A large building is being erected for the Implement business of A. C. Ryan & Co.

Iowa, Exira—Geo. Milliman is planning to build a 2-story brick building.

Iowa, Marshalltown—Fire destroyed the J. C. Roebuck 2-story brick building; loss \$8,000, insured \$2,000; Dan Lueing restaurant, loss \$1,000; Lou Richmond, restaurant, \$1,200, insured, \$1,000; W. D. Hix building; Dan Ruth building, Chas. Morrison, pool hall.

Iowa, Shellrock—J. T. Burkett, architect, Waterloo, Iowa, prepared plans for a 2-story brick and tile store and garage building, 2 for Wilson, Hyman & Allen, 50x16, cost \$6,500; owners will build; steel trusses and beams, sand cut stone, common pressed brick, steam heat, electric lights, municipal composition roof, common plaster, plate and prism glass, birch and oak floors, pine and oak finish.

Iowa, Waterloo—The Leavitt & Johnson National Bank will build a 12-story building, 65x140, steel frame, brick and concrete, fireproof, modern; plans approved.

Iowa, Webb—Fire destroyed the following business buildings: postoffice, bank, meat market and Summy Brothers & Ney's hardware store.

Minn., Duluth—A 7-story reinforced concrete addition will be built to its plant by Northern Cold Storage & Warehouse Co., contract for foundation let to McLeod & Smith, general contract awarded later.

Minn., Elbow Lake—Three buildings started: Moldrem studio, Hanson Bros.' drug store and First National Bank; Moldrem building, 1-story, brick, 25x40; Mr. Stuverud, contractor; Hanson Bros., brick, 2-story, 32x80, tile floors and marble wainscoting in vestibule, Twin City pressed brick fronts; First National Bank will enlarge building, plate glass, hardwood floors, tile floor for lobby, hardwood finish, steam heat; Kettle River Sandstone trim, \$16,000; fama stonewood floor in basement.

Minn., Eveleth—Shanedling Bros. are erecting a new modern building.

Minn., Fergus Falls—M. Benson has let contract for addition to his furniture store, 33x25, 2-story, brick.

Minn., Ironton—Work has begun on foundation of the First National Bank building.

Minn., Lakefield—W. E. E. Greene, architect, Luverne, Minn., prepared plans for a 2-story brick store building, for J. T. Sokolik & Sons, 50x70, cost \$11,000; steel beams, cast columns, cut stone, common, pressed and hollow brick, steam heat, electric lights, skylights, sheet metal ceiling, asbestos roof, patent plaster, plate, wired, ribbed glass, birch and



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**Minn., Two Harbors**—The First State Bank is building a large modern structure, 25x65, brick with stone front, vaults, tile floors, marble and mahogany fixtures, M. K. Knauff, Jas. H. Lunz, F. H. Welcome, and others, directors.

**Minn., Willmar**—Claude Beckwith is building bath house, modern baths, half dozen ordinary baths, Turkish baths, shower baths, etc.

**Mont., Great Falls**—Ground was broken for the Graham & Ross warehouse; cost \$15,000.

**Mont., Great Falls**—E. L. Hammill will build block, 3-story, brick, 50x150; \$50,000; modern.

**Mont., Lewistown**—G. W. Morrow will build a modern 2-story structure, 52x80, at Geraldine not a postoffice.

**Mont., Miles City**—Plans are being drawn for a \$50,000 brewery plant; N. R. Jacobs, Sioux Falls, S. D., chief promoter.

**Mont., Moore**—Contractor W. T. Sharp is drawing plans for 2-story fireproof, building for Richard Royston.

**Neb., Arlington**—Fred Menking is rebuilding his store.

**Neb., Arnold**—Ground is being broken for F. P. Knox's brick office building.

**Neb., Beatrice**—The Palmer-Wheelock Enterprise Co. will build a new brick building; cost about \$5,000.

**Neb., Crete**—Adolph Jelinek will build a brick implement building.

**Neb., Dakota**—W. L. Ross and Fred Schriever Co. planning to build a brick store.

**Neb., Neligh**—Plans for the new bank building are completed, modern throughout.

**Neb., Niobrara**—Al Smith has begun a brick shop, 1-story and basement.

**N. D., Cayuna**—The Liberty Lumber Co. will build an addition to their sheds; Nels Jackson, contractor.

**N. D., McClusky**—Fire destroyed Tantow pool room, Hargrave restaurant and confectionery; loss about \$3,000.

**Ont., London**—The Dominion Savings Bank burned; loss \$300,000.

**S. D., Vermillion**—Contractor Nylen is putting in concrete foundation for new store building for Mrs. L. C. Nissen.

**S. D., Woonsocket**—W. M. Bratton will build a 2-story, brick store, 25x120; cost \$10,000; plans by architect, F. C. W. Kuehn, Huron, S. D.; lime cut stone, common brick, pressed, steam heat, skylights, sheet metal ceiling, wood roof, plaster, paint, varnish, plate, prism, wired, ribbed glass, oak and maple floors, fir finish; owner taking bids; close May 19; bids on heating, plumbing, taken later.

**S. D., Worthing**—Cement block for Worthing Electric Co., 50x80, 2-story, started.

**Wis., Ashland**—Wholesale firm of Emil Garnich & Sons Co. will erect a large building, 100x120, modern.

**Wis., Casco**—The Des Moines Structural Steel Works received the contract for furnishing the steel for the Casco Bank building.

**Wis., Eau Claire**—The E. A. White Machine Co. will build a large building.

**Wis., Green Bay**—C. R. McAllister will build grocery store building.

**Wis., Lake Mills**—Fire destroyed the Neupert warehouse, \$15,000.

**Wis., New Holstein**—The John Lauson Manufacturing Co. will build addition, 75x120 to present store house, concrete foundation, superstructure brick.

**Wis., Pardeeville**—Frank Kennedy will build a cement block building.

**Wis., Racine**—Chandler & Park have completed plans for a 3-story brick store, double, for Ernst Klinkert, estimated cost \$15,000.

**Wis., Sparta**—Wm. Wettstein will build a brick restaurant building, modern.

**Wis., Turtle Lake**—Gene Fisk will build new business block.

**Wis., Walworth**—Work will soon commence on new brick blacksmith shop of Wm. Schaid.

**Wis., Winter**—Goffin Bros. will build a business block.

**Wyo., Casper**—Burlington road has site for wool warehouse, construction to begin at once.

#### BIDS WANTED.

**Iowa, Newhall**—Bids received until 2 p. m., May 18, for a building by Chas. A. Dieman, architect, Cedar Rapids, Iowa, separate bids on plumbing and heating; J. A. Miller, president and secretary Savings Bank.

**Minn., Isanti**—Bids received by Security State Bank, until 1 p. m., May 11, for a 2-story bank building; check \$300; officially advertised in this issue of the Improvement Bulletin.

#### CONTRACTS AWARDED.

**Iowa, Grinnell**—Contract to C. W. Ennis, Toledo, for Merchants' National Bank building, at \$60,000.

**Iowa, Oakland**—Purveyor Bros. have let contract for erection of modern brick building, mason work to Max Kobel, Avoca, carpenter work to Elmer Alexander, city.

**Minn., St. Cloud**—Bidders and bids for heating C. F. Lader building this city; contract awarded to J. P. Bisenium at \$2,305; J. P. Munsinger, \$2,426; J. P. Bisenius, \$2,305, Gravity; \$3,296, Moline; \$3,045.70, Kriebel; Kiewell Engineering Co., St. Paul, \$2,494, Gravity; \$2,986, Moline; \$2,997, Kriebel; Roland C. Buckley, architect, St. Cloud.

**Minn., Winthrop**—Contract for the brick building for State Bank of Winthrop and J. C. Hanson Drug store, awarded to O. J. Olson, and T. M. Carlson; Peter Espenson and Herman Kruger have let contract to J. B. Nelson Construction Co., Mankato for brick building.

**Mont., Glasgow**—Contract awarded to Leigland & Kleppe, contracts, Great Falls, for First National Bank building.

**Mont., Great Falls**—Contract awarded to Leighland, Kleppe & Co., for erection of Shannon block, 3-story; contract price \$14,000.

**S. D., Iroquois**—Contract awarded to Wold Construction Co., Brookings, S. D., for the Merchants & Farmers' State Bank; F. C. W. Kuehn, architect.

## RESIDENCES

*Notes arranged alphabetically by States.*

**Iowa**—Following will build residences: Davenport—Henry Holst, 1-story, frame, \$2,800; Chris Steen, 2-story frame, \$2,600. Sumner—John Lang, Frank Dean, John Sell.

**Iowa**—Following will build residences: Cedar Falls—Chas. Jennings. Davenport—F. W. Friedholdt; Harry Phillips, 2-story, \$4,000.

**Iowa**—Following will build residences: Dyersville, Jos. Freyman, modern. Council Bluffs, Jos. Hansen, 1½-story frame, \$2,000.

**Iowa**—Following will build residences: Davenport—Schreck Bros., for Sidney F. Lindsley, 2-story, frame, \$2,000. Theo. Koehnke, 2-story, frame, \$2,000. Manson—Tom Tierman, modern. Mingo—John Altes, Sr., modern. Primghar—L. T. Aldinger, modern. Perry—Mearl Clark. Boone—Dr. C. A. King, modern. Colfax—James Oswald, modern.

**Iowa**—Following will build residences: Davenport—K. H. Cox, 1-story frame, \$2,000, for J. I. McCullough; Albert Brandt, 2-story frame, \$4,600. Britt—Ed. Johnson, modern. Onawa—Theo. Vandervert, modern. Leon—Geo. Gray, modern. Sumner—Wm. Pipho, modern. Evansville—C. H. Crump, 2-story, furnace heat, modern lighting system, Earl McElroy, contractor. Nora Springs—Contractor B. C. Wright of Charles City, has contract for E. E. Sherman house.

**Minnesota**—Following will build residences. Wells—Will White, modern. Annandale—Jess Hennemann, modern; John Heaton, carpenter. Breckenridge—D. K. Slichter, modern cottage. Duluth—J. S. Lutes, modern, brick and stone. Fairmont—Otto F. Meyer, modern. Morris—Frank Malmberg, cement block. Dassel—Chas. Larson; M. E. congregation parsonage.

**Minnesota**—Following will build residences: Northfield—Prof. Geo. B. Woods, of Carleton, modern. Sanborn—Prof. C. F. Pecholt, modern bungalow. Litchfield—Len Inselman, modern. Thief River Falls, Jacob Pfeffer has contract for Catholic parsonage. Fairmont—Wm. Reifel, modern. Carver—John A. Bensington, San Francisco town, house burned; loss \$5,000.

**Minnesota**—Following will build residences: Buhl—Peter Aarni and Wesley Jacobs. Milan—Peter C. Olson, modern; T. Anderson, contractor. Alden—Fred Huper, modern. Canby—Dr. O. H. Warner, modern bungalow. Lewiston—Mr. Beckstead. Brook Park—Mr. Hancock, modern. Northome—M. C. Engelking, modern. St. Paul—Jack Schelen, cottage.

**Minnesota**—Following will build residences: Shakopee, Henry K. Vierling, frame; Herman Boehmer, contractor. Mankato, Alex Bashaw, modern. Hutchinson, Frank Kolar, modern; H. A. Jennings, contractor. Hutchinson, John Hartwig, 1½-story, E. E. Grubert, contractor. Winnebago, Geo. Wier. Montevideo, P. L. Mettling, 2-story frame; Richard Jacobson, 2-story lumber and stucco; Carrie W. Olson, 2-story; John M. Hanson, 1½-story bungalow; J. O. Anderson, 2-story frame. Hector, Charles Whitney, modern. Springfield, Adolph Altermatt, modern, 2-story; Ernst Puhlman has contract. Springfield, J. A. Stewart, modern; Wm. Schafer, contractor.

**Wisconsin**—Following will build residences: Chippewa Falls—H. F. Powers, modern. Neenah—St. Alban's Episcopal church, parish house, \$12,000.



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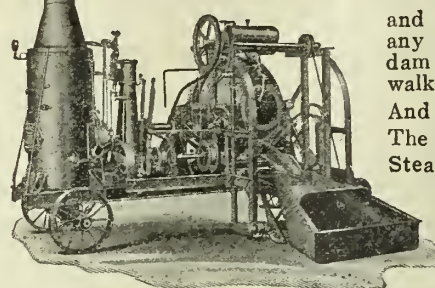
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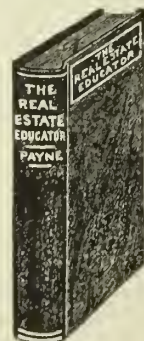
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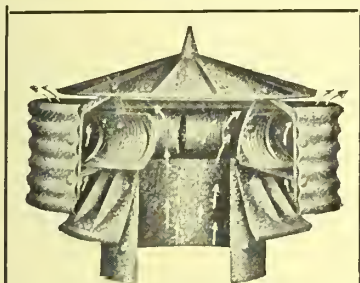
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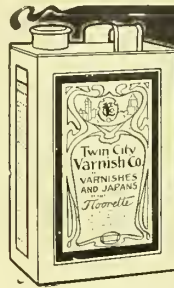
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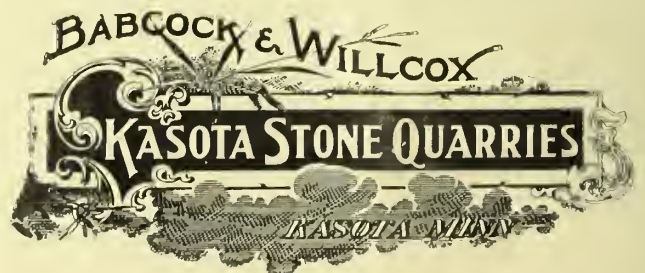
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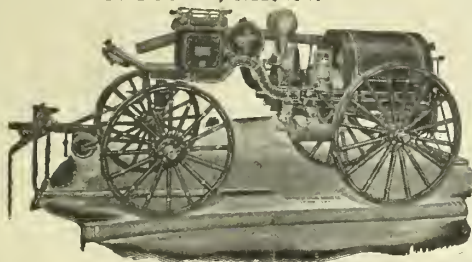
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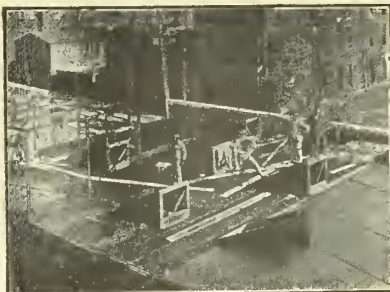
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Volume XLVII.

Minneapolis, Minn., May 9, 1914.

Number 23

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Berger, C. A., Minneapolis.....	12	Johnson, Jackson & Corning Co., Minneapolis.....	6	Pioneer Granite Co., St. Cloud, Minn.....	48
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Biesanz Stone Co., Winona, Minn.....	30	Jones, H. B., Minneapolis.....	30	Plymouth Gypsum Co., Fort Dodge, Ia.....	50
Boukind-Carlson Brick Co., Crookston, Minn.....	40	Joyes & Co., Wm. B., St. Paul-Minneapolis.....	18	Power Engineering Co., Minneapolis.....	18
Brown Stone Co., Kasota.....	28	H. Kelly & Co., Minneapolis.....	48	Radisson Hotel, Minneapolis.....	12
Bruschi-Minuti Co., St. Paul.....	28	Kettle River Co., Minneapolis.....	44	Ranson, Bitram W., Minneapolis.....	2
Builders' Iron Works Co., St. Paul.....	32	Kimball Bros. Co., Council Bluffs, Ia.....	42	Raymer Hardware Co., St. Paul.....	42
N. B. Cagley & Co., Minneapolis.....	18	Klauser Manufacturing Co., Dubuque.....	34	Red River Valley Brick Corporation, Grand Forks.....	30
Canton Steel Ceiling Co., Minneapolis.....	38	Koehring Machine Co., Milwaukee-Minneapolis.....	22	Red Wing Sewer Pipe Co., Red Wing, Minn.....	46
Carney's Cement Works (Carney's Cement).....	1	Krieger-Jamar Co., Duluth.....	51	Ricketts Mineral Paint Works, Milwaukee.....	62
Carr-Cullen Co., Minneapolis.....	6	La Crosse Steel Roofing Co., La Crosse.....	38	Republic Cressoline Co., Minneapolis.....	50
Central Supply Co., Minneapolis.....	52	Lagerquist, Gust., Minneapolis.....	36	Rogers & Co., Minneapolis.....	42
Chaska Brick & Tile Co., Chaska.....	30	Landers-Morrison Christenson Co., Minneapolis.....	1	Sauk Rapids Granite Co., Sauk Rapids, Minn.....	40
Claussen, Oscar, Engineer Co., St. Paul.....	18	The Lane Company, Minneapolis, Minn.....	46	Scribner-Libby Co., St. Paul.....	40
Clinton Bridge Works, Clinton, Ia.....	28	Lansing Co., Lansing, Mich.....	36	Selden Roofing & Mfg. Co., Minneapolis.....	38
Corrugated Bar Co., St. Paul.....	2	Larkin, A. E., Minneapolis.....	50	Shakopee Cement Lime Mfg. Co., St. Paul.....	30
W. P. Cowles, Minneapolis.....	18	Lee & Hoff Mfg. Co., St. Paul.....	1	Shorthill Steel & Iron Works, Des Moines, Iowa.....	16
Crane Co., Minneapolis.....	44	Victor H. Leeb, Fargo, N. D.....	40	Sioux City Brick & Tile Co., Sioux City, Ia.....	30
Crane & Ordway Co., St. Paul.....	44	Leslie Paper Co., Minneapolis.....	30	Speakes Lime & Cement Co., Superior, Wis.....	50
Crookston Brick & Tile Co., Crookston.....	30	Lillyblad, Gust., Red Wing.....	50	Standard Salt & Cement Co., Duluth.....	1
Crown Iron Works Co., Minneapolis.....	52	Lott & Co., K. F., Minneapolis & St. Paul.....	34	M. B. Stone, Minneapolis.....	18
Davenport Machine & Foundry Co., Davenport, Ia.....	26	Majestic Furnace & Foundry Co., Minneapolis.....	50	St. Paul Foundry Co., St. Paul.....	32
Decker Hardware Co., St. Paul.....	6	Mantorville Stone Co., Mantorville, Minn.....	48	St. Paul Lime & Cement Co., St. Paul.....	1
Demeules Bros., Minneapolis.....	32	Mason City Brick & Tile Co., Mason City, Ia.....	28	St. Paul Roofing, Cornice & Ornament Co., St. Paul.....	16
Des Moines Bridge & Iron Works, Des Moines.....	50	McCarthy, J. F., Minneapolis.....	46	Sterling Electric Co., Minneapolis.....	46
Des Moines Marble & Mantel Co., Des Moines.....	2	McDonnell Boiler & Iron Works, Des Moines, Ia.....	42	I. Stephenson Co., Wells, Mich.....	6
Des Moines Structural Steel Works, Des Moines, Ia.....	2	Metal Weather Strip Co., St. Paul-Minneapolis.....	32	S. Swenson Artesian Well Co., Minneapolis.....	57
Dickinson Fire & Pr. Brick Co., Dickinson, N. D.....	18	Midway Ornamental Iron Works, St. Paul.....	32	O. F. Symons & Co., Minneapolis.....	36
Diebold Safe & Lock Co., St. Paul.....	40	Milwaukee Corrugating Co., Milwaukee.....	51	Thomson-Williams Co., Duluth.....	34
Dix Machine Co., Stillwater, Minn.....	44	Minneapolis Blue Printing Co.....	18	Thorp Fireproof Door Co., Minneapolis.....	40
Drake Marble & Tile Co., St. Paul.....	46	Minneapolis Electric Equipment Co.....	46	Turner, C. A. P., Minneapolis.....	12-50
Duluth Corrugating & Roofing Co., Duluth.....	51	Minneapolis Steel & Machinery Co., Minneapolis.....	26	Twin City Brick Co., St. Paul-Minneapolis.....	30
Duluth Cut Stone Co., Duluth.....	51	Minnesota Art Glass Co., Minneapolis.....	38	Twin City Tile & Marble Co., Minneapolis.....	28
Dunlop-Moore Co., Duluth.....	51	Minnesota Fama Stonewood Co., St. Paul-Minneapolis.....	28	Twin City Varnish Co., St. Paul.....	52
Edward Edinger Co., Cedar Rapids, Ia.....	46	Minnesota Manufacturers Association.....	38	Union Fibre Co., Winona, Minn.....	24
Enterprise Iron Works, Albert Lea, Minn.....	51	Minnesota Roofing & Cornice Works, St. Paul.....	38	Universal Portland Cement Co.....	24
Erickson, Nels, Minneapolis.....	26	Minnesota Weatherproof Caulking & Glazing Co., Minneapolis.....	50	Van Kannel Revolving Door Co., St. Paul.....	40
Eureka Machine Co., Lansing, Mich.....	36	Minneapolis Gas Fixture Co., Minneapolis.....	48	Voggenthuler Co., E. J., Dubuque, Ia.....	38
Farnham Printing & Stationery Co.....	00	A. Moorman & Co., St. Paul, Minn.....	36	Warner Hardware Co., Minneapolis.....	6
Fidelity & Deposit Co., Minneapolis-St. Paul.....	38	W. K. Morison & Co., Minneapolis.....	6	Waterloo Engine Co., St. Paul.....	1
Flint Brick Co., Des Moines, Ia.....	28	National Fireproofing Co., Minneapolis-Chicago.....	30	Waterloo Cement Machinery Corp., Waterloo, Ia.....	20
Flour City Ornamental Iron Works.....	22	National Mfg. & Supply Co., Minneapolis.....	41	Waterloo Register Co., Waterloo, Ia.....	44
Fowler & Pay, Mankato-Minneapolis.....	50	National Products Co., Cleveland, Ohio.....	16	Wildell Co., Mankato, Minn.....	00
Galion Iron Works Co., Minneapolis, Minn.....	16	New Elm Stone Co., New Elm, Minn.....	48	Wisconsin Land & Lumber Co., Hermansville, Mich.....	1
		Northern Electrical Co., Minneapolis.....	46	Wishart & Co., R. S., Minneapolis.....	38
		Northern Insulating Co., St. Paul.....	40	Wolff, L. P., St. Paul.....	30
				Youngstown Steel & Iron Co., Youngstown, O.....	26



## NOTE

For street address of firms mentioned here, consult their advertisements which can readily be found by referring to the alphabetical list on page three.

### ARCHITECTURAL MODELING.

K. F. Lott & Co., Mpls. and St. Paul, Minn.

### ARCHITECTS' SUPPLIES.

Minneapolis Blue Ptg. Co., Mpls., Minn.  
Rogers & Co., Minneapolis, Minn.

### ASBESTOS AND MAGNESIA PRODUCTS.

H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
Krieger-Jamar Co., Duluth, Minn.

### ARTESIAN WELLS.

J. F. McCarthy, Minneapolis, Minn.  
S. Swenson Artesian Well Co., Minneapolis, Minn.

### BANKS.

Northwestern National Bk., Mpls., Minn.

### BANK AND STORE FIXTURES.

Flour City Ornamental Iron Works, Minneapolis, Minn.  
A. Moorman & Co., St. Paul, Minn.  
Northwestern Fixture & Cabinet Co., Minneapolis, Minn.

### BOILERS.

Andrews Heating Co., Minneapolis, Minn.  
Associate Mfrs. Supply Co., Mpls., Minn.  
Central Supply Co., Minneapolis, Minn.  
Crane & Ordway Co., St. Paul, Minn.  
Hasey Heating Co., Minneapolis, Minn.  
McDonnell Boiler & Iron Works, Des Moines, Iowa

### BONDS—SURETY.

Hood & Penney Co., Minneapolis, Minn.  
Wm. B. Joyce & Co., Mpls.-St. Paul, Minn.  
Fidelity & Deposit Co., Mpls.-St. Paul, Minn.

### BRASS GOODS.

Central Supply Co., Minneapolis, Minn.  
National Mfg. & Supply Co., Mpls., Minn.

### BRICK AND TILE.

American Brick & Tile Co., Mason City, Ia.  
Arnegard, Ole., Hillsboro, N. D.  
Barber Asphalt Paving Co., Des Moines, Ia.  
Belt Line Brick Co., Minneapolis, Minn.  
Boukind-Carlson Brick Co., Crookston, Minn.  
Chaska Brick & Tile Co., St. Paul, Minn.  
Crookston Brk. & Tile Co., Crookston, Minn.  
Dickinson Brick Co., Dickinson, N. D.  
Flint Brick Co., Des Moines, Ia.  
Hebron Fire & Pressed Brick Co., Hebron, N. D.  
Hydraulic Press Brk. Co., Minneapolis, Minn.  
Johnson, Jackson & Corning Co., Minneapolis and St. Paul, Minn.  
Mason City Brick & Tile Co., Mason City, Ia.  
National Fireproofing Co., Minneapolis, Minn., and Chicago, Ill.  
Northwestern Fireproofing Co., Mpls., Minn.  
A. C. Ochs Brick & Tile Co., Springfield, Minn.  
Red River Valley Brick Corporation, Grand Forks, N. D.  
Shakopee Cement Lime Co., St. Paul, Minn.  
Sioux City Brick & Tile Works, Sioux City, Ia.  
Standard Salt & Cement Co., Duluth, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.  
Twin City Brick Co., St. Paul-Mpls., Minn.

### BRIDGES.

American Bridge Co., Minneapolis, Minn.  
Clinton Bridge Works, Clinton, Ia.  
Corrugated Bar Co., St. Paul, Minn.  
Crown Iron Works Co., Minneapolis, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
N. W. Concrete Steel Co., Minneapolis, Minn.  
St. Paul Foundry Co., St. Paul, Minn.  
Shorthill Steel & Iron Co., Des Moines, Ia.

### BUILDING MATERIAL.

Barber Asphalt Paving Co., Des Moines, Ia.  
Baxter Sash & Door Co., Duluth, Minn.  
N. B. Cagley & Co., Minneapolis, Minn.  
Carr-Cullen Co., Minneapolis, Minn.  
Dunlop-Moore Co., Duluth, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co., Mpls. and St. Paul, Minn.  
Landers-Morrison-Christensen Co., Minneapolis, Minn.  
Osgood & Blodgett Mfg. Co., St. Paul, Minn.  
Shakopee Cement Lime Co., St. Paul, Minn.  
The Northwestern Lime Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

### BUILDERS' SPECIALTIES.

Dunlop, Moore Co., Duluth, Minn.  
Paine & Nixon Co., Duluth, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Thomson-Williams Co., Duluth, Minn.  
Waterloo Register Co., Waterloo, Ia.

### CALKING PASTE.

Minnesota Weatherproof Calking & Glazing Co., Minneapolis, Minn.

### CEMENT.

Atlas Portland Cement Co., New York, N. Y., Chicago, Ill., and Minneapolis, Minn.  
Carney's Cement Works, Mankato, Minn.

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Fowler & Pay, Mpls. and Mankato, Minn.  
Landers-Morrison-Christensen Co., Minneapolis, Minn.  
N. W. Lime Co., Mpls. and St. Paul, Minn.  
Shakopee Cement Lime Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Speakes Lime & Cement Co., Superior, Wis.  
St. Paul Lime & Cement Co., St. Paul, Minn.

### CELLS, STEEL.

Avery Steel & Iron Co., Minneapolis, Minn.  
Crown Iron Works Co., Minneapolis, Minn.  
Diebold Safe & Lock Co., St. Paul, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.

### CEILINGS, STEEL.

Canton Steel Ceiling Co., Minneapolis, Minn.  
R. S. Wishart & Co., Minneapolis, Minn.

### CHAIRS, OPERA.

Northern Theatre Supply Co., Mpls., Minn.

### COAL CHUTES.

Crown Iron Works Co., Minneapolis, Minn.  
Enterprise Iron Works, Albert Lea, Minn.  
Gardner Hardware Co., Minneapolis, Minn.  
Majestic Furnace & Fdy. Co., Mpls., Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Waterloo Register Co., Waterloo, Ia.

### COLD STORAGE PLANTS.

Chas. A. Berger, Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

### COLUMN CLAMPS.

O. F. Symons & Co., Minneapolis, Minn.

### CONCRETE CONSTRUCTION.

Corrugated Bar Co., St. Paul, Minn.  
C. A. P. Turner, Minneapolis, Minn.

### CONCRETE MACHINERY.

Atlas Engineering Co., Milwaukee, Wis.  
Nels Erickson, Minneapolis, Minn.  
Eureka Machine Co., Lansing, Mich.  
G. E. Ingersoll & Co., St. Paul, Minn.  
Koehring Machine Co., Minneapolis, Minn., and Milwaukee, Wis.  
Jaeger Machine Co., Columbus, Ohio  
Raymer Hardware Co., St. Paul, Minn.  
Lansing Co., Lansing, Mich.  
Northwestern Steel & Iron Wks., Eau Claire, Wis.  
Waterloo Cement Machinery Corp., Waterloo, Iowa

### CONCRETE REINFORCING BARS.

Inland Steel Co., St. Paul, Minn.  
Corrugated Bar Co., St. Paul, Minn.  
N. W. Concrete Steel Co., Minneapolis, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.

### CORNICES.

Griffin & Boehme, St. Paul, Minn.  
F. V. Haverland, Minneapolis, Minn.  
Minnesota Roofing & Cornice Works, St. Paul, Minn.  
R. S. Wishart & Co., Minneapolis, Minn.  
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.  
Berger Mfg. Co., Canton, Ohio

### CORRUGATED IRON, ETC.

Corrugated Bar Co., St. Paul, Minn.

### CONCRETE REINFORCING.

Inland Steel Co., St. Paul, Minn.  
N. W. Concrete Steel Co., Minneapolis, Minn.

### CONTRACTORS.

N. B. Cagley & Co., Minneapolis, Minn.

### CONTRACTORS' SUPPLIES AND MACHINERY.

Decker Hardware Co., St. Paul, Minn.  
O. F. Symons & Co., Minneapolis, Minn.

### CULVERTS.

Victor H. Leeb, Fargo, N. D.  
Biesanz Stone Co., Winona, Minn.  
Klauser Mfg. Co., Dubuque, Ia.  
Minneapolis Steel & Mach. Co., Mpls., Minn.

### CRUSHED STONE.

Fowler & Pay, Mankato, Minn.  
Kettle River Co., Minneapolis, Minn.  
Klauser Mfg. Co., Dubuque, Ia.  
Mantorville Stone Co., Mantorville, Minn.  
New Uhn Stone Co., New Ulm, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Widell Co., Mankato, Minn.

### CREOSOTING.

Republic Creosoting Co., A. E. Larkin, Minneapolis, Minn.

### DEADENING MATERIAL.

H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Union Fibre Co., Winona, Minn.

### DECORATIONS.

Odin J. Oyen, La Crosse, Wis.

### DITCHING MACHINES.

Dix Machine Co., Stillwater, Minn.

### DREDGES.

Bay City Dredge Co., Bay City, Mich.

### ELECTRICAL ENGINEERING.

Minneapolis Electric Equipment Co., Minneapolis, Minn.  
Northern Electrical Co., Minneapolis, Minn.

## RATES

For three lines in directory, giving name, address and goods handled, \$25 for 1 year, 52 times.

### SAMPLE AD

Great Northern Brick Company  
Pressed Brick and Drain Tile  
Minneapolis, - - - Minn.

### ELECTRIC MOTORS AND SUPPLIES

H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
Minneapolis Electric Equipment Co., Minneapolis, Minn.  
Sterling Electric Co., Minneapolis, Minn.

### ELECTRIC SPECIALTIES

Minneapolis Electric Equipment Co., Minneapolis, Minn.

### ELEVATORS AND ENCLOSURES.

Kimball Bros. Co., Council Bluffs, Ia.  
Gust Lagerquist, Minneapolis, Minn.  
Lee & Hoff Mfg. Co., St. Paul, Minn.

### ELEVATOR CABS.

N. W. Fixture & Cabinet Co., Mpls., Minn.

### ENGINEERS.

Oscar Claussen Engineering Co., St. Paul, Minn.  
Charles L. Pillsbury, Minneapolis, Minn.  
L. P. Wiff, St. Paul, Minn.  
M. B. Stone, Minneapolis, Minn.  
W. P. Cowles, Minneapolis, Minn.  
Power Engineering Co., Minneapolis, Minn.

### FIRE ESCAPES.

Crown Iron Works Co., Minneapolis, Minn.  
Des Moines Structural Steel Works, Des Moines, Ia.  
Davenport Mach. & Fdy. Co., Davenport, Ia.  
Minneapolis Steel & Mach. Co., Mpls., Minn.

### FIREPROOF DOORS.

Thorp Fireproof Door Co., Minneapolis, Minn.  
R. S. Wishart & Co., Minneapolis, Minn.

### FLUE LINING.

Northwestern Lime Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.

### FIRE PROTECTION APPARATUS.

Waterous Engine Works Co., St. Paul, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

### FIREPROOFING DOORS AND SHUTTERS.

Selden Roofing & Manufacturing Co., Minneapolis, Minn.  
R. S. Wishart & Co., Minneapolis, Minn.

### FLOORING.

American Torgoment Flooring Co., Minneapolis and (Midway) St. Paul, Minn.  
Fama Stonewood Co., St. Paul, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co., Mpls. and St. Paul, Minn.  
Osgood & Blodgett Mfg. Co., St. Paul, Minn.  
Ranson, Birtram W., Minneapolis, Minn.  
I. Stephenson Co., Wells, Mich.  
Thomson-Williams Co., Duluth, Minn.

### FURRING.

Corrugated Bar Co., St. Paul, Minn.

### GAS AND ELECTRICAL FIXTURES.

Herber Chandelier Co., Minneapolis, Minn.  
Mpls. Electric Equipment Co., Mpls., Minn.  
Minneapolis Gas Fixture Co., Mpls., Minn.  
Sterling Electric Co., Minneapolis, Minn.

### GLASS.

American Luxfer Prism Co., Chicago, Ill.  
Minnesota Art Glass Co., St. Paul, Minn.  
Pittsburgh Plate Glass Co., Minneapolis and St. Paul, Minn.

### GRAVITY CARRIER.

Minnesota Manufacturers' Association, North St. Paul, Minn.

### HARDWARE TRIMMINGS.

Decker Hardware Co., St. Paul, Minn.  
Gardner Hardware Co., Minneapolis, Minn.  
Raymer Hardware Co., St. Paul, Minn.  
The Lane Co., Minneapolis, Minn.  
Waterous Engine Co., St. Paul, Minn.  
Warner Hardware Co., Minneapolis, Minn.

### HEAT REGULATORS.

Andrews Heating Co., Minneapolis, Minn.

### HEATING AND VENTILATING.

Andrews Heating Co., Minneapolis, Minn.  
Associate Mfrs. Supply Co., Minneapolis, Minn.  
Hasey Heating Co., Minneapolis, Minn.  
H. Kelly & Co., Minneapolis, Minn.  
National Mfg. & Supply Co., Mpls., Minn.  
Charles Wilkins & Co., Minneapolis, Minn.

### HOSE.

Gardner Hardware Co., Minneapolis, Minn.  
W. K. Morison & Co., Minneapolis, Minn.

### HOTELS.

Radisson Hotel, Minneapolis, Minn.



## NOTE

For street address of firms mentioned here, consult their advertisements, which can readily be found by referring to the alphabetical list on page three.

### INSULATING MATERIAL.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co.....St. Paul, Minn.  
Union Fibre Co.....Winona, Minn.

### INSURANCE.

Fidelity & Deposit Co.....Minneapolis and St. Paul, Minn.  
Fred L. Gray Co.....Minneapolis, Minn.  
Hood & Penney Co.....Minneapolis, Minn.  
W. B. Joyee Co.....Mpls. and St. Paul, Minn.  
Minneapolis Insurance Agency.....Mpls., Minn.

### IRON AND STEEL WORK.

Avery Steel & Iron Co.....Minneapolis, Minn.  
Clinton Bridge Works.....Clinton, Ia.  
Crown Iron Works.....Minneapolis, Minn.  
Davenport Machine & Foundry Co.....Davenport, Ia.  
Des Moines Structural Steel Works.....Des Moines, Ia.  
Inland Steel Co.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
N. W. Concrete Steel Co.....Minneapolis, Minn.  
Oberg & Stainer Co.....Minneapolis, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.  
St. Paul Foundry Co.....St. Paul, Minn.  
E. J. Voggenthaler Co.....Dubuque, Ia.  
Youngstown Iron & Steel Co.....Minneapolis, Minn.

### JOIST HANGERS.

Avery Steel & Iron Co.....Minneapolis, Minn.  
Crown Iron Works Co.....Minneapolis, Minn.  
Davenport Machine & Foundry Co.....Davenport, Ia.  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
Northwestern Concrete Steel Co.....

### LIME.

Fowler & Pay.....Mpls. and Mankato, Minn.  
Landers-Morrison-Christenson Co.....Minneapolis, Minn.  
Gust Lillyblad.....Red Wing, Minn.  
Shakopee Cement Lime Manufacturing Co.....St. Paul, Minn.  
Speakes Lime & Cement Co.....Superior, Wis.  
St. Paul Lime & Cement Co.....St. Paul, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.  
The Northwestern Lime Co.....St. Paul, Minn.

### MANTELS—GRATES.

Drake Marble & Tile Co.....Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
N. W. Marble & Tile Co.....Minneapolis, Minn.  
Twin City Tile & Marble Co.....Mpls., Minn.

### MARBLE, TILING, MOSAIC.

Drake Marble & Tile Co.....Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
N. W. Marble & Tile Co.....Minneapolis, Minn.  
Thomson-Williams Co.....Duluth, Minn.  
Twin City Tile & Marble Co.....Mpls., Minn.  
Des Moines Marble & Mantel Co.....Des Moines, Iowa

### METAL SHINGLES.

Milwaukee Corrugating Co.....Milwaukee, Wis.

### METAL AND WIRE LATH.

Corrugated Bar Co.....St. Paul, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.  
Johnson, Jackson & Corning Co.....Minneapolis and St. Paul, Minn.  
Northwestern Lime Co.....St. Paul, Minn.  
St. Paul Lime & Cement Co.....St. Paul, Minn.  
Thomson-Williams Co.....Duluth, Minn.

### MILLWORK.

Baxter Sash & Door Co.....Duluth, Minn.  
Osgood-Blodgett Mfg. Co.....St. Paul, Minn.

### MUNICIPAL CASTINGS.

Davenport Mach. & Fdy. Co.....Davenport, Ia.

### OFFICE FURNITURE.

Farnham Printing & Sta. Co.....Mpls., Minn.

### ORNAMENTAL IRON AND WIRE.

Builders Iron Works Co.....Minneapolis and St. Paul, Minn.  
Crown Iron Works Co.....Minneapolis, Minn.  
Davenport Machine & Foundry Co.....Davenport, Ia.  
Denueles Bros.....Minneapolis, Minn.  
Flour City Ornamental Iron Works.....Minneapolis, Minn.  
Midway Ornamental Iron Works.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
St. Paul Foundry Co.....St. Paul, Minn.

### PAINTS, FILLERS, ETC.

Gardner Hardware Co.....Minneapolis, Minn.  
Ricketson Mineral Paint Works.....Milwaukee, Wis.

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### PACKINGS AND HOSE.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

### PAVEMENT.

Barber Asphalt Paving Co.....Des Moines, Ia.  
Barrett Mfg. Co.....New York, N. Y.

### PICTURE MACHINES.

Northern Theatre Supply Co.....Mpls., Minn.

### PIPE AND BOILER COVERING.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

### PIPE—CAST IRON.

American Cast Iron Pipe Co.....Minneapolis

### PLASTER—WALL.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
Plymouth Gypsum Co.....Fort Dodge, Ia.  
Shakopee Cement Lime Co.....St. Paul, Minn.  
St. Paul Lime & Cement Co.....St. Paul, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.

### PLASTERING—ORNAMENTAL.

Brioschi-Minuti Co.....St. Paul, Minn.

### PLASTIC ORNAMENTS.

Brioschi-Minuti Co.....St. Paul, Minn.  
K. F. Lott & Co.....Mpls. and St. Paul, Minn.

### PLUMBING AND GAS FITTING

Charles Wilkins & Co.....Minneapolis, Minn.

### PRINTING.

Farnham Printing Co.....Minneapolis, Minn.

### PRISMS.

American Luxfer Prism Co.....Chicago, Ill.  
Crown Iron Works Co.....Minneapolis

### PLUMBING AND HEATING JOBBERS.

Associate Mfrs. Supply Co.....Mpls., Minn.  
Central Supply Co.....Minneapolis, Minn.  
National Mfg. & Supply Co.....Mpls., Minn.

### RADIATORS.

Associate Mfrs. Supply Co.....Mpls., Minn.  
Central Supply Co.....Minneapolis, Minn.

### REVOLVING DOORS.

Van Kannel Revolving Door Co.....St. Paul, Minn.

### ROOFING GRAVEL AND ASPHALT.

Griffin & Boehme.....St. Paul, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
Krieger-Jamar Co.....Duluth, Minn.  
Minnesota Roofing & Cornice Works.....St. Paul, Minn.  
Northwestern Lime Co.....St. Paul, Minn.  
Scribner-Libby Co.....St. Paul, Minn.  
Selden Roofing & Manufacturing Co.....Minneapolis, Minn.  
Thomson-Williams Co.....Duluth, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### ROOFING—METAL.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.  
Duluth Corrugating & Roofing Co.....Duluth, Minn.  
Gardner Hardware Co.....Minneapolis, Minn.  
La Crosse Steel Roofing & Corrugating Co.....St. Paul, Minn.  
St. Paul Roofing, Cornice & Ornamental Co.....St. Paul, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.  
Berger Mfg. Co.....Canton, Ohio

### ROOFING MATERIAL.

Barrett Mfg. Co.....New York, N. Y.  
Corrugated Bar Co.....St. Paul, Minn.  
John Leslie Paper Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
McClellan Paper Co.....Minneapolis, Minn.

### ROOFING AND SIDING—IRON AND STEEL.

Gardner Hardware Co.....Minneapolis, Minn.  
Inland Steel Co.....St. Paul, Minn.

### RUBBER SHINGLES.

Standard Salt & Cement Co.....Duluth, Minn.

### RUST-RESISTING IRON SHEETS.

Inland Steel Co.....St. Paul, Minn.

### SAFES.

Diebold Safe & Lock Co.....St. Paul, Minn.  
Heilig & Elliott Co.....Minneapolis, Minn.  
Herring-Hall-Marvin Safe Co.

### SAND AND GRAVEL.

Standard Salt & Cement Co.....Duluth, Minn.

### SAW RIGS.

H. B. Jones, 349 Security Bank Building.....Minneapolis, Minn.  
Raymer Hardware Co.....St. Paul

### SEWER PIPE AND DRAIN TILE.

Ingalls Stone Co.....Bedford, Ind.  
Iowa Sewer Pipe & Tile Co.....Des Moines, Ia.  
Northwestern Lime Co.....St. Paul, Minn.  
Plymouth Clay Products Co.....Fort Dodge, Ia.  
Red Wing Sewer Pipe Co.....Red Wing, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.

## REMEMBER

Announcements on this page are read by architects, contractors, and the building trade generally, all over the Northwest and produce excellent results.

### SHEETS—IRON AND STEEL.

Gardner Hardware Co.....Minneapolis, Minn.  
Inland Steel Co.....St. Paul, Minn.

### SIDEWALK LIGHTS.

American Luxfer Prism Co.....Chicago, Ill.  
Crown Iron Works Co.....Minneapolis  
K. F. Lott & Co.....St. Paul and Minneapolis, Minn.

### SLATE BLACKBOARDS.

Twin City Tile & Marble Co.....Minneapolis, Minn.

### SKYLIGHTS.

Krieger-Jamar Co.....Duluth, Minn.  
St. Paul Roofing, Cornice & Ornament Co.....St. Paul, Minn.  
R. S. Wishart & Co.....Minneapolis, Minn.

### STEEL—BARS.

Inland Steel Co.....St. Paul, Minn.  
Twin City Tile & Marble Co.....Mpls., Minn.

### STONE.

Babeoek & Wilcox.....Kasota, Minn.  
Biesanz Stone Co.....Winona, Minn.  
Also Building Material, Gravel for Roofing, Sand and Gravel.  
Breen Stone Co.....Kasota, Minn.  
Edw. Edinger Co.....Cedar Rapids, Ia.  
Ingalls Stone Co.....Bedford, Ind.  
Kettle River Co.....Minneapolis, Minn.  
Duluth Cut Stone Co.....Duluth, Minn.  
Mantorville Stone Co.....Mantorville, Minn.  
New Ulm Stone Co.....New Ulm, Minn.  
Pioneer Granite Co.....St. Cloud, Minn.  
Sauk Rapids Granite Co.....Sauk Rapids, Minn.  
Wm. Penn Stone Co.....Minneapolis, Minn.  
The Widell Co.....Mankato, Minn.

STRUCTURAL SECTIONS AND SHEETS.  
Inland Steel Co.....St. Paul, Minn.

### TANKS—STEEL.

American Bridge Co.....Minneapolis, Minn.  
Central Supply Co.....Minneapolis, Minn.  
Minneapolis Steel & Mach. Co.....Mpls., Minn.

### TELESCOPIC HOISTS.

Avery Supply Co.....Minneapolis, Minn.

### TERRA COTTA.

Johnson, Jackson & Corning.....Minneapolis and St. Paul, Minn.  
K. F. Lott & Co.....Minneapolis and St. Paul, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.

### VARNISHES.

Gardner Hardware Co.....Minneapolis, Minn.  
North Star Varnish Co.....Minneapolis, Minn.  
Twin City Varnish Co.....St. Paul, Minn.

### VALVES.

Central Supply Co.....Minneapolis, Minn.  
Crane Co.....Minneapolis, Minn.  
Crane & Ordway Co.....St. Paul, Minn.

### VAULTS.

Diebold Safe & Lock Co.....St. Paul, Minn.  
Heilig & Elliott Co.....Minneapolis, Minn.  
Herring-Hall-Marvin Safe Co.  
Also Vault Doors, Vault Furnishings and Filling Equipment.

### VENTILATING SYSTEMS.

Hackney Ventilating Co.....Minneapolis, Minn.  
Charles Wilkins & Co.....Minneapolis, Minn.

### WALL BEDS.

Northwestern Bedding Co.....St. Paul, Minn.

### WATERPROOFING.

Gardner Hardware Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co.....St. Paul, Minn.

### WATER TOWERS, STEEL.

Minneapolis Steel & Machinery Co.....Minneapolis, Minn.

### WINDOW SCREENS—METAL FRAME.

O. F. Symons & Co.....Minneapolis, Minn.

### WIRE AND IRON WORKS.

Builders Iron Works.....Minneapolis and St. Paul, Minn.  
Demeules Bros.....Minneapolis, Minn.  
Midway Ornamental Iron Works.....St. Paul, Minn.

### WEATHER STRIPS.

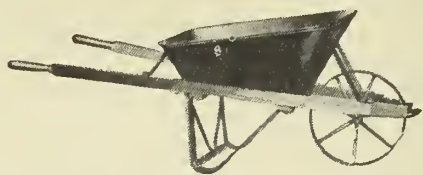
Metall Weather Strip Co.....St. Paul, Minn.  
O. F. Symons & Co.....Minneapolis, Minn.

### WOODWORKING.

G. E. Ingersoll.....St. Paul, Minn.



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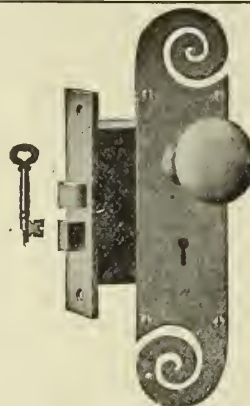
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**Adam Decker Hardware Co.**

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Face Brick      Enameled Brick

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Metal Lath

Cabot's Creosote

Shingle Stains and

Sheathing Quilt

**JOHNSON - JACKSON & CORNING CO.**

216-17 Lumber Exchange  
MINNEAPOLIS, MINN.

633 Ryan Building  
ST. PAUL, MINN.



# IMPROVEMENT BULLETIN

OFFICIAL ORGAN OF THE MINNESOTA STATE ASSOCIATION OF BUILDERS EXCHANGES

VOLUME XLVII.

SATURDAY, MAY 9, 1914

NUMBER 23



## EDITORIAL



O. L. COLBURN, Editor

### COMMONIZING CHURCH ARCHITECTURE.

Practical modern tendencies are being overworked. Sentiment, without which human nature is apt to be a common thing, is being worsted in the struggle with the utilitarians. We hope the tide of battle soon will turn. It does not seem a good sign to destroy ideas of honorable position and sentiments of that kind, with city managers instead of mayors and commissions instead of aldermen. It would not be well to have a federal efficiency engineer in place of the president of the United States at Washington. It is not conducive to the education of the best in human nature to make church structures common, without their proper individuality, character, appeal. No church edifice can fulfill its whole purpose without reminding people, by its appearance, of the objects to which it is devoted. No church appears quite right without a spire.

In Los Angeles a Methodist church will be nine stories high and look like a downtown commercial structure. It will in fact be a business building, since the six upper stories will be used for a hotel of three hundred and thirty rooms. What does it matter that the three lower stories, in side, will be the last word in interior church decoration. Contrast this church with any "old-fashioned" reminder of peace, comfort, good will, that you know; and see where modern tendencies are taking us. Even temples hardly will do for the Anglo-Saxon race or the Celtic, as churches. They want the spires and they probably will have them. Architecture has no better opportunity than that to appeal to sentiment with the church spire.

### GREAT DITCH CONTRACTS.

Letting a \$250,000 ditch contract last week in the Northern part of Minnesota, was noted merely as a routine news item. It was a reminder of the new era, now with us, and the millions being spent in the rapid reclamation of land in the North Star state. The cost of a judicial ditch, in another part of the state, is placed at a quarter of a million dollars; a \$100,000 project is under way in the extreme southern part of the state. These are only a few of many items, not only in this but neighboring states. Judge Stanton has appointed O. L. Denton of Carlton, Minn., as referee and supervising engineer of judicial ditches in Koochiching, Beltrami, Itasca, Cass, and Carlton counties. He will begin his duties at once and will maintain headquarters in Bemidji.

The engineer's duties will be to inspect and to have general supervisory charge of all ditch construction, to examine and audit all bills for labor and other expenses and to report to the court in detail all obtainable information with reference to every judicial ditch projected or under construction, and especially with reference to the manner of fulfillment of contracts in both ditch and road construction.

The ditch projects in that judicial district are of such magnitude and involve the expenditure of such large sums of money that the district judges deem it imperative to provide some authoritative and responsible general director and supervisor of the work, so that through his efforts the judges may be informed as fully and reliably as possible with reference to the work performed and the manner in which the funds appropriated for that purpose are expended.

Ditches now petitioned for, together with those already established and now in process of construction in these counties, will necessitate the expenditure of approximately \$4,000,000 in the ensuing three years.

To adopt and pursue every possible method to insure the wisest and most economical expenditure of this vast sum is plainly a mandatory public duty. The drainage law authorized the appointment by the district judges of a referee.

### NEW WESTERN RAILROADS.

Besides the extensive construction on the program of 1914, for the established northwestern transcontinental lines, there is to be, it now appears, a great deal of railroad building for enterprises at least nominally new. The cost of this work is estimated at \$10,000,000 or more, and probably half this amount will be spent this year, according to reports from the west.

Residents of northwestern Montana are excited, and elated,

by the positive announcements about the Spokane, Wallace & Interstate Railway, which would connect Thompson Falls and its territory with the Couer d'Alenes country. From Thompson Falls we learn that arrangements have been completed for financing the Spokane, Wallace & Interstate, and that actual work will be started by June 1, 1914. The total cost of this road is given as \$4,750,000. It will shorten the distance by rail from Spokane to Wallace by about 15 miles. Wiseacres in the railway world are strongly of the opinion that this new road is a move on the part of the Chicago, Milwaukee & St. Paul railroad to get into the Couer d'Alenes.

The proposed new line from Couer d'Alene to Wallace would fit in with apparent plans in Thompson Falls vicinity as it is practically an assured fact that the Chicago, Milwaukee & St. Paul will eventually have to build in in order to handle the immense timber output of the Anaconda Copper Co., when logging operations get under way on their enormous holdings there.

Former Lieutenant-Governor W. R. Allen of Montana returned recently to Butte from Chicago, where he went with other western directors of the Boston-Montana Development Co. to confer with eastern directors of the company regarding the final details of financing and letting the contract for the Butte & Wisdom railroad being constructed by the company through the Big Hole valley for a distance of 119 miles.

"The project has been financed by English capitalists," said Governor Allen, "and the contract for building the road will be carried through by the famous firm of McArthur, Perks & Co.

"They have some mighty projects under way in different parts of the world, some of their greatest efforts having been great pier and warehouse construction work in the Argentine republic: building of a great tunnel through the Andes, and many other big affairs, including costly and important railroad work in the western part of the country. Both Mr. McArthur and Sir Robert Perks came from England to attend the meeting. Sir Robert has offered to finance and build the Chicago subway, and to dig a canal connecting Lake Michigan with the St. Lawrence river.

"The road is to extend from Divide through the Big Hole valley, with a branch to Elk Horn district, where our 3,000-foot tunnel has been splendidly equipped with machinery and will be driven right ahead. Another branch will extend to French gulch.

"The road will be utilized for the hauling of ore from the Elk Horn and French Gulch districts and also for the transporting of the products of the great Big Hole valley. Eventually Butte will become an objective point of the road, but that, of course is a matter of development.

"Practically all of the road has been surveyed and in fact many of the locations made and yardage established. Construction work is to begin July 1, when the teams will be put to work. About \$2,500,000 will be expended during the next year in building the road."

### ONE OF MANY.

Editor Improvement Bulletin, I see by last week's Bulletin that you are making an offer of a subscription in connection with mentioning advertisers. That's just what I take the Bulletin for,—to keep posted on where to purchase building material. I purchase all my material from Bulletin advertisers. I will mention a few to you:

TWIN CITY BRICK CO., FOR HY-TEX BRICK.  
FOWLER & PAY, FOR LIME.  
BABCOCK AND WILCOX, FOR STONE.  
PITTSBURGH PLATE GLASS CO.  
RAYMER HARDWARE CO.  
MINNEAPOLIS STEEL AND MACHINERY CO.  
H. W. JOHNS-MANVILLE CO.  
UNION FIBER CO.  
MILWAUKEE CORRUGATING CO.  
AMERICAN BRICK AND TILE CO.  
WATERLOO CEMENT MACHINERY CO.  
INLAND STEEL CO.  
RED WING SEWER PIPE CO.  
DES MOINES STRUCTURAL STEEL CO.  
and many others.

The way I do when I get a job, I take the Bulletin, refer to the different material firms, and write for prices and then purchase from those firms.

I am, yours truly,

J. F. VICTORIA,

Britt, Iowa,  
Contractor and builder.



# Minneapolis is Breaking the Building Record

Moving pictures of the construction now going on in Minneapolis would surprise and thrill its best posted residents. The building in progress this first week of May, 1914, undoubtedly would astonish any native if he could pictorially and statistically be given to understand all that is going on. The Minneapolis Evening Journal suggests the aeroplane view of the city this spring, and says it would present a great number of new roofs, frames, foundations and excavations, scattered through all parts of the city and suburbs. Acres upon acres of floor space are being added for offices and business. Millions of dollars being expended and thousands of laborers and mechanics are being employed. Records have been broken this year in construction totals and more are to be smashed.

The Minneapolis Art Museum, to cost nearly \$1,000,000, is one of the foremost additions to Minneapolis in 1914. The First National-Soo Line building at Marquette av. and 5th st., to cost \$1,250,000, nineteen stories, is representative of office and bank building. Ford Motor Co. 10-story building at 5th av. N. and 5th st., which will cost \$750,000, is a sample of the wholesale district and manufacturing building. The mail and express building for the Great Northern station, 80x300 feet on the ground, may cost \$400,000. The Minneapolis Athletic club building is a type of club house to be finished this year. The Hennepin Avenue Methodist church at Lyndale and Groveland avs; cost, \$400,000.

One block apart on Hennepin av. are the New Palace theater at 4th st. and the Hennepin Arcade office and store building at 5th st. On 7th st. near Nicollet av. Saxe Brothers are putting up a modern motion picture house. On Nicollet av. between 8th and 9th sts., Douglas A. Fiske is putting up a substantial retail building to cost \$35,000. The Corporation Securities has begun a 1-story building to contain ten stores at Nicollet av. and 13th st.

Besides the New Palace and the Saxe theaters are the Mansfield theater at 1400 W. Lake st., will cost \$27,500; the Karlens theater at 2541 Nicollet av., cost \$16,000, and the Goldman theater at 2316 Central av., \$17,000.

The Fairview hospital adjoining Thomas hospital on the river bank, will cost \$125,000. An addition to the Swedish hospital will increase the building list \$50,000, to which will be added the cost of additions to the city hospital.

Many homes will be erected in Minneapolis in 1914, some of them of the most expensive type, and work is already underway on apartments that will altogether hold several hundred families of all sizes.

Two great grain elevators are to be erected by Minneapolis industries. One will adjoin the Pillsbury A Mill and the other the Gould elevator in Northeast Minneapolis. They will cost \$650,000. Warehouses are to be built by the Lansing Co., Slocum-Bergren Co., T. J. Skellet Co., Northwestern Knitting Co., R. W. Munzer & Sons and the city of Minneapolis. Stores are to be built by B. T. Harris, F. F. Lenhart, T. K. Kelly Sales Co. and others.

The Minnesota college will spend \$100,000 on a campus addition, the city will erect school houses and park buildings and the University of Minnesota will spend hundreds of thousands on new buildings.

These are only a portion of the thousands of new structures. Some not mentioned by the Journal are: Nine stories added to the Palace building, making it seventeen; two churches building and one about to be built for Christian Science congregations, costing about \$100,000 each; three residences to cost \$120,000 for Lake of the Isles district; \$865,000 on bridges; \$100,000 for new Catholic churches and institutional buildings; \$200,000 for new homes at Minnetonka; \$80,000 Lake Street Commercial Club.

## SAUK RAPIDS RISES AS GRANITE CENTER.

Important announcements regarding the growing granite industry of Sauk Rapids, Minn., have just been made. The Sauk Rapids Granite Co. made arrangements last week with the Merchants' National Bank of St. Cloud, to take over the old Western Granite Co.'s quarries, including crushing plant and cutting sheds. New equipment will be installed in the quarries, the crushing plant will be enlarged and rebuilt and the cutting sheds overhauled and all machinery will be electrically driven from current supplied by the Public Service Co. of St. Cloud.

The Sauk Rapids Co. also has purchased the large Beal Quarry through the latter's local representative, W. H. Fletcher, which is just one mile north of the Western Granite Co.'s property which has long been known as one of the largest deposits of red granite in that vicinity. The Northern Pacific Railway Co. will extend its tracks from the present terminus at the Western Granite Co.'s property, through the Beal property and then a mile and a half further to a large deposit of light gray granite that has also been secured by the Sauk Rapids Granite Co.

The Sauk Rapids Co. will put on its own locomotive and cars, connecting all its properties and do its own switching, and will furnish crushed granite, paving blocks, curbing, building stone and monumental stock.

Special attention will be paid to large building work, as the large equipment of the company will particularly fit it to handle this profitable branch of the granite industry. The capital of the Sauk Rapids Granite Co. is being increased to \$300,000, of which \$150,000 will be 7 per cent preferred stock.

George W. Bestor of Minneapolis, who as president of the Kettle River Quarries Co., built up a concern from a small beginning to the largest industry west of the Mississippi, will be president of the enlarged company. C. C. Dragoo will be vice president and general manager.

It is understood that a large amount of the new stock has been reserved for local subscription.

This move on the part of the granite company will mean much for Sauk Rapids. In fact it is one of the best things that ever happened to the town. Fully two hundred men will be employed when the new company gets well under way, the greater part of whom, with their families, will reside at Sauk Rapids.

## MANKATO BROWN LIME GOES TO SAN FRANCISCO.

Fowler & Pay of Mankato, Minn., are shipping brown lime to the Standard Oil Company of San Francisco, Cal., to be used by that company in the construction of new build-

ings. This incident shows that the Mankato brown lime is recognized all over the country. It is regarded as one of the strongest and best makes of lime known at the present time, producing a mortar that stands for all time.

## PLANS AT BUILDERS' EXCHANGE, MINNEAPOLIS.

Plans on file May 2, Minneapolis Builders' Exchange: Church addition, Fairfax, Minn., bids open May 4; school, Toledo, Iowa, bids open May 4; Ardock school, Ardock, S. D., bids open May 4; electric light plant, Comfrey, Minn., bids open May 4; church, Crookston, Minn., bids open May 5; ginia, Minn., J. Donlin, Superior, Wis.; school, Virginia, son, Minn., bids open May 6; state hospital, St. Peter, Minn., bids open May 7; state hospital, St. Peter, Minn., electric work, bids open May 7; bank, Plentywood, Mont., bids open May 11; school, Dahlen, S. D., bids open May 11; ladies' gymnasium, University of Minnesota, bids open May 11; ladies' gymnasium, mechanical equipment, bids open May 11; hotel, Sioux Falls, S. D., bids open May 12; boiler section, hospital, Willmar, Minn., bids open May 14; city hospital, Menomonie, Wis., bids open May 14; children's hospital, Phalen Park, Minn., bids open May 15; manual training building, Eveleth, Minn., bids open May 15; high school addition, Oconto Falls, Wis., bids open May 18; school, Bathgate, S. D., bids open May 18; church, Watertown, S. D., bids open May 18; store, Woonsocket, S. D., bids open May 19; armory, New Ulm, Minn., bids open May 20; school, Sioux Falls, S. D., bids open May 21; church, Plato, Minn., bids open May 22; school, Maddock, N. D., bids open May 25; brick building, Carthage, S. D.; Masonic Temple, Howard, S. D.; residence, Watertown, S. D.; rewiring state normal school, Mayville, S. D., bids open May 29.

Bids in: Bank, Shakopee, Minn.; theater, Sauk Center, Minn.; Masonic Temple, Watertown, S. D.; Leisen building, St. Cloud, Minn.; parochial school, Epiphany, S. D.

Contracts awarded: Bank, Grafton, N. D., Ross & Siver- sen, Crookston; armory, Fairmont, Minn., Carlstrom, Mankato; addition to horse barn, University Farm, St. Paul, Libby & Nelson, Minneapolis; chemistry building, Vermillion S. D., Wold Construction Co., Brookings, S. D.; school, Virginia, Minn., J. Donlin, Superior, Wis.; school, Virginia, heating and plumbing, Star Construction Co., Virginia; heating, Ladner building, St. Cloud, J. P. Bisenium, St. Cloud; school, St. Cloud, Ambrose & Wahl, St. Cloud; high school, Arcadia, Wis., Kramer & Stevens, St. Charles, Minn.; store, Frank Randel, St. Cloud, Minn., Carl Kropp, St. Cloud; bank, Grand Forks, N. D., Ingemann & Co., Merriam Park.





"Hill Building" at 4th and Jackson sts., St. Paul, Which Will House the Great Northern and the Northern Pacific Railroad General Offices, the First National Bank and Northwestern Trust Co.

Work upon the new Great Northern-Northern Pacific, First National and Northwestern National Trust Co. building has begun with the wrecking of the buildings on the site at 4th, Jackson and 5th sts. The building will cost approximately \$3,000,000, and cover two-thirds of a block and will be twelve stories high. It will adjoin the new Gordon & Ferguson building and it is expected that it will be ready for occupancy late in 1915. This building will be owned jointly by the Great Northern and the Northern Pacific, and will house the general offices of both roads.

#### READY ROOFING SPECIFICATION.

Commence at the top of the roof; if roll roofing is used, cut into lengths not to exceed 10 feet. Cut adjoining ends of roofing so that they will fit together closely without lapping. Lay the strip of felt underneath the joint so that it will extend 3 inches on each side of joint and the entire width of the sheet of roofing. Cover the strip of felt thoroughly with cement and imbed the ends of the roofing into it. Lap material at horizontal laps at least 2 inches applying between same a thorough coat of cement. Secure all sheets both at vertical and horizontal joints with roofing cleats placed approximately  $\frac{3}{4}$  inch from the edge and  $\frac{1}{2}$  inch apart at ends, to be nailed with galvanized cleat nails, or with large headed galvanized nails  $\frac{3}{4}$  inch from edge of material and 2 inches apart. Lay the roofing material in the same direction as the eaves of roof so that 2 inches of the roofing felts are allowed to project over the comb from either side, the one to be nailed over the other at intervals of about nine inches, after which a finishing piece of roofing 10½ inches wide shall be laid lengthwise of comb, 5¼ inches to show on either side and to be thoroughly nailed at the lower edges.

#### WINDOW GLASS SITUATION.

The glass jobber should give careful attention to the window glass situation as the end of the present fire is rapidly

It has been decided by the two roads to set the building back twenty feet and to start a campaign for the widening of Jackson st., says the St. Paul Daily News. This will provide for the widening of Jackson st. between 4th and 5th without a cent of cost to the city. Charles Frost, Chicago, is architect. The First National Bank and the Northwestern Trust Co. will be located on the first floor. The building will have frontage of an entire block on the east side of Jackson st., and in point of floor space will be the largest office building in the city. Toltz Engineering Co., St. Paul, consulting engineers.

approaching. The Johnston Brokerage Co., of Pittsburgh, reports the situation in a letter to the trade as follows:

Reports from throughout the country indicate that the buying movement that developed under the manufacturers' guarantee, the last week in January and the first week in February, brought about the placing of orders to the extent of about a million boxes, which was fully up to the expectation of the manufacturers and takes care of their product very nicely for the next five or six weeks. In fact, stocks are being slightly reduced instead of increased, and as stocks have not been heavy at any time this year, the argument is more convincing that there will be no surplus at the end of the blast.

The trade seems to have regained confidence in the situation, as manufacturers report the placing of business daily, independent of the guarantee, and if this demand continues to increase, stocks in the hands of manufacturers will be decreased considerably between this and April 1st. With the product taken care of until sometime in April and the opening of the hand plants the latter part of May or perhaps earlier, we don't believe there need be the slightest uneasiness among dealers in window glass during this manufacturing year.

In case you have not placed your orders for your spring requirements we would advise doing so, as it will insure you better service and better quality.



# PERSONAL AND GENERAL NEWS.

## Doings of the Northwest this Week Boiled Down for Busy Readers

### PERSONAL AND GENERAL.

Adam Decker Hardware Co., 347-49 Jackson, St. Paul, announce through the columns of the Improvement Bulletin that the company has secured the St. Paul agency for the well known Sherwin-Williams Paint Co. and carry a full line. The Adam Decker Co. calls attention to the fact that the Sherwin-Williams Co. has a decorative department which the Decker Co. would be glad to put anyone interested in touch with, if he will drop the Decker Co. a line requesting portfolio. The Adam Decker Co. also announce that the departmentizing of the store is as follows: Stoves, in charge of J. J. Moshofsky; tool department, in charge of Bert Quehl; cutlery department, in charge of John Lind; paint department, in charge of Wm. Gallagher; retail hardware, in charge of J. J. Pfeiffer; builders' hardware, in charge of C. M. Moulden. The departments are all prospering and are giving the expected excellent, improved service.

The Northwestern Bedding Co., St. Paul, incorporated at Pierre, S. D., for \$500,000, was formed to take over the Northwestern Bedding Co. and Union Mattress Co., both of St. Paul. The factory facilities will be increased. Incorporators: F. J. Wilcken, A. C. Wilcken, Conrad Hamm, St. Paul; L. J. Buenger, Minneapolis; Frank Mohs, Webster, S. D.; Clarence R. Hay, Aberdeen, S. D.; H. M. Sterud and W. H. Bailey, Pierre, S. D.

S. A. Challman, Minnesota state commissioner of school buildings, and Prof. F. M. Mann, head of the university school of architecture, are preparing a one-room school plan. It will be ready soon to send to districts where one-room schools are contemplated.

A. H. Martin, manager of the Mason City Brick & Tile Co., Mason City, Iowa, was in the Twin Cities this week. Mr. Martin stated the outlook indicated a big business for his company this year.

E. F. Barker, Jackson, Minn.; G. W. Cook, South English, Iowa, have joined J. Hammerstrom in the plumbing and heating business at Hutchinson, Minn. Mr. Barker has been traveling in this field and Mr. Cook has been in the hardware, heating and plumbing business thirty years.

G. Garnett of Ironton, Minn., and Fred Hannah of Deerwood, Minn., have engaged in contracting as Garnett & Hannah at Deerwood.

Kahabka & Snichloch, contractors, Plum City, Wis., report building brisk in their locality.

The North Star Iron Works, at Owatonna, Minn., incorporated; manufacture and dealing in agricultural implements; capital, \$50,000; G. J. Kaplan, W. J. Felton, Alila Felton, Carrie Kaplan, all of Owatonna, Minn.

Nelson Brick & Tile Co., at Albert Lea, Minn., incorporated; manufacturing brick and tile and clay products; capital, \$50,000; Carl A. Swenson, Edward Olson and Peter Jensen of Albert Lea, and Herman A. Nelson, Rolfe, Iowa.

Progress in Alaska—Mr. and Mrs. James Hogan of Juneau, Alaska, who have just completed a 4-story apartment building there are preparing to build another to cost \$40,000.

Johnston & Johnston, Ltd., general contractors, of Calgary and Edmonton, have been recommended by the city commission to construct the two new fire halls for the city of Edmonton.

J. M. Carroll died recently at Grand Forks. He had sewer contracts in Minot.

There was a good list of bidders for the South Side school at Virginia, Minn., in which John Donlon, Superior, won the general. His competitors were: Tomlinson & Egan, Ashland, Wis.; Bailey-Marsh, Minneapolis; Theodore Naufts, Duluth; Bove-Burke, Duluth; Fawcett & Bergstrom, Duluth.

Carey Concrete Co., Grand Rapids, Wis., is furnishing material for the Le May building.

The Buffalo Foundry & Machine Co., of Buffalo, N. Y., announces that they have terminated the arrangement whereby H. E. Jacoby, has been representing them in New York city and vicinity. They are now handling direct all inquiries covering vacuum apparatus, castings, patterns, and machine work.

Walter Beuhler, formerly representing the association of creosoted block makers, has severed his connection with that organization and now is vice president of the E. W. Coons Co., Hibbing, Minn., general paving contractors. This company got the contract for laying pavement and sidewalks in the United States Steel corporation's "Model City," adjoining

ing the big steel plant being built just west of Duluth on the St. Louis river. The contract amounts to about \$175,000.

The Trussed Concrete Steel Co.'s St. Paul offices have been moved from 415 Lowry annex to 817 Commerce building. C. H. Gagen, district manager.

### NEW FIRMS INCORPORATED

Minn., Granite Falls—Stony Run Light and Power Co., Stony Run township; S. O. Ljosvold, John J. Mooney and others.

Minn., Walker—Kabekona Lumber Co., \$50,000; A. J. Twanberg, Cass Lake, president; Thos. Hammond, Walker, vice president.

Mont., Highwood—Nine Mile Highwood Telephone Co.; J. L. Goodhue, John Jacoby and others.

S. D., Letcher—Butler Townsend Telephone Co.; \$25,000; N. M. Stienfield.

Minneapolis—Great Northern Dredge Co.; Chas. T. Glasser; \$50,000.

S. D., Deadwood—National Operating Co.; \$1,500,000; A. E. Olson, J. E. Dahl, and others.

Iowa, Waterloo—Elk Run Sand & Gravel Co.; \$3,000; C. C. Volker, president.

Mont., Great Falls—Brayton Engineering Co., of Portland.

Mont., Butte—Geo. M. Smith Construction Co.; \$25,000; Geo. M. Smith.

Mont., Carter—Teton Bench Telephone Co.; \$4,000; Fern Graham.

Mont., Helena—Helena & Red Mountain Mining Co.; \$150,000; I. R. Eidell.

Minn., St. Paul—St. Paul Cuyuna Iron Co.; Kay Tood, and others.

Minn., St. Paul—St. Paul Holding Co.; Harold C. Kerr, and others.

Wis., Superior—Home Building Co.; \$5,000; A. Rothemberg.

Wis., Milltown—Milltown Co-operative Laundry Co.; \$6,000; Geo. A. Nelson.

Wis., Westford—Hawkins Creek Telephone Co.; M. Neary.

Minn., Lanesboro—Farmers & Merchants Lumber Co.; \$25,000; A. G. Austin.

S. D., Lane—South Dakota Retail Hardware Assn.; \$5,000; C. W. Anderson.

### ARCHITECTS AND ENGINEERS.

Tracy & Swartout, New York, who won the competition for the Geo. Washington memorial, Washington, D. C., have won numerous competitions recently including the Missouri capitol and Denver postoffice. The other architects invited for this competition were: McKim, Mead & White, John Russell Pope, Electus, Litchfield, Warren & Wetmore, New York; Allen & Collins and Peabody & Stearns, Boston; Parker, Thomas & Rice, Baltimore; Evans & Young, St. Louis; Hornblower & Marshall, Washington, D. C.; Paul P. Cret, Philadelphia; Howard Van Doren Shaw, Chicago; John Galen Howard, San Francisco. The memorial will contain a convention hall, rooms for states, rooms for national associations, dining room for six hundred.

Holstead & Sullivan, incorporated, at Duluth, Minn.; general business, furnishing building plans and general construction work; capital stock, \$30,000, shares \$100. Incorporators: Abraham Holstead, W. J. Sullivan, E. J. Kenny, all of Duluth.

Geo. A. Oman, of Boston, has joined the staff of Hoffman & Mosse, architects, Rochester, Minn.

A report on the Hart river dam at Mandan, N. D., states that it is a credit to State Engineer J. W. Bliss, who was in charge of it. The Chautauqua grounds on the lake created are to be beautified.

James G. Lawson has been appointed maintenance engineer of Duluth, Minn., Mr. Lawson has been engaged for about fifteen years as assistant engineer of Duluth and for a time with the Great Northern Power Co., of Duluth. At the time of his appointment he was in private practice.

Architect R. T. Frost of Minot was selected as architect of the new Elks' home at Williston, N. D.; also to prepare plans for an eight-room school at Crosby, Minn., and for a large wholesale house in the new town of Westby on the North Dakota state line.

Bladholm Bros., builders, of Marshall, Minn., have established an engineering department. J. H. A. Brahtz, a graduate of Copenhagen university, will take charge of this department, having arrived from New York. Mr. Brahtz has studied civil engineering and construction work for six years, had practical experience, and will be a valuable man to the firm of builders in steel and concrete.

Robt. Rasmussen, draftsman, Minneapolis, has returned to the city after professional engagements during the past year in Chicago, St. Louis and Kansas City.

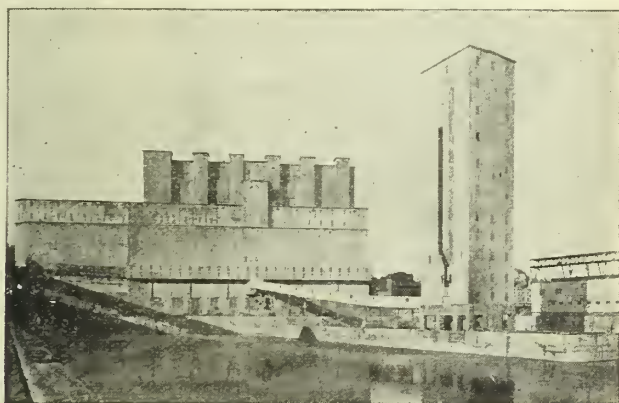
The Sketch Club, St. Paul, and the Gargoyle Club held a joint meeting in the Studio building, May 5, and considered the plan for a joint lease of rooms with the Sketch Club.



**WORLD'S LARGEST CONCRETE ELEVATOR.**

The marine traffic of the port of Montreal is second only to that of the port of New York among all the ocean ports of North America. An important portion of the export traffic from Montreal is grain, which is, for the greater part, wheat from the western provinces of Canada.

On account of the inadequate export grain handling equipment in Montreal, the John S. Metcalf Co., construction engineers, erected for the harbor commissioners a grain elevator of the highest class, providing a rapid and efficient plant for the unloading of railway cars and inland vessels, of sufficient storage capacity so that merchants could hold grain at the exporting point when it became advantageous to do so, and to eliminate the direct transfer and inland cargoes to ocean vessels.



Harbor Commissioner's Elevator.

The entire structure, including first story bins and the cupola above the bins, is of concrete. Even in the cupola, columns, beams, walls, floors and roof are of this material, making it absolutely fireproof, and 30,000 pounds Medusa waterproofing were used to make the work impervious to water and dampness.

The elevator, including storage addition, is 456 feet 8 inches long by 100 feet wide and 220 feet 9 inches high to the top of the leg towers, and has a total capacity of 2,622,000 bushels. Four railroad tracks extend through the entire elevator, the shipping conveyor galleries are 1½ miles long, and ordinarily the elevator will receive 240 cars in 10 hours. The concrete bins are 86 feet deep and bin walls are in general 8-inch thick, while the bin capacities range from 6,800 bushels to 14,300 bushels and the total number of bins is 278, exclusive of shipping bins. The total shipping capacity, starting with the shipping bins full, will be 90,000 bushels hourly for 10 hours.

In the construction of this elevator 48,000 cubic yards of concrete and 5,100 tons of steel were used. The machinery will be run by electricity, for which 64 motors have been installed, totaling 4,000 horse power, and 13 telephones will be used in elevator and conveyor galleries.

A marine tower for unloading boats was also constructed, the maximum hourly capacity of which is 40,000 bushels, and a reinforced concrete building was provided for a grain dryer with a capacity of 5,000 bushels per day.

It is stated that the automatic scales, fourteen in number, are the largest automatic scales ever constructed, and to build them it was necessary for the manufacturers to erect a complete elevator for the purpose of testing each machine before shipment.

This is the largest reinforced concrete grain elevator in the world, and brings the handling and storage capacity of harbor in excess of any other North American ocean port. The Medusa waterproofing for this immense monument of cement work was furnished through our Montreal representatives, the Stinson-Reeb Builders' Supply Co., Ltd.

**MANY ORDERS FOR REVOLVING DOORS.**

The Van Kannel Revolving Door Co., F. M. Cady, representative, 615 Ryan Annex, St. Paul, recently received orders for revolving doors for the following buildings: Two doors, pump house, United States ship canal, Sault Ste. Marie, Mich.; one door, National Bank of Commerce, Superior, Wis.; one door, United States postoffice, Moorhead, Minn.; two doors, Blackhawk Hotel, Davenport, Iowa; one door, The Journal building, Sioux City, Iowa; one door, Hotel Bellis, Wausau, Wis.; five doors, Merchants' National Bank, St. Paul, Minn.; two doors, Hotel Julian, Dubuque, Iowa.

**MANY CONTRACTS TO RAYMER HARDWARE CO.**

Among the numerous contracts which the Raymer Hardware Co. of St. Paul has at present are the following: New state work at Walker sanitarium; north and south wing, boys' dormitory at Grandview, Faribault, Minn.; A. P. Wallick's residence, Summit av., St. Paul; Thos. Frankson residence, Frankson's addition, St. Paul; Jos. and Chas. Friedman building at corner Selby and Snelling, St. Paul; jail and sheriff's residence at Winona; new state building at Crookston.

The company is just finishing a fine contract at the Mayo clinic building, Rochester, Minn., amounting to a little over \$10,000; also the Wilder public baths at Seven Corners. All the hardware on the Wilder charity building is solid eclipse metal, which is a mixture of German silver, nickel and other alloys.

**ANDREWS HEATING MORE OF THE COUNTRY.**

The Andrews Heating Co. are shipping their system to all parts of the country. Some of the parties installing these are:

Frank Eyler, Columbus, Ohio; E. S. Erickson, Helena, Mont.; city hospital, Stillwater, Minn.; Joseph Pritchard, Saskatoon, Canada; C. A. Tarbell, Kenosha, Wis.; G. W. Dyson, Cooperstown, N. D.; Pittsburg Building Material Co., Pittsburg, Kansas; W. C. Idol, High Point, N. C.; J. W. Davis, Springfield, Mo.; A. LaFountin, Pendleton, Ore.; M. M. Senter, Bancroft, Neb.; Shaffer Bros., Schnurr & Wesp, New Hampton, Iowa.

**"MUSHROOM" FLOOR FINISH, THE LATEST.**

C. A. P. Turner, whose mushroom system of reinforced concrete construction has become universally known, has invented a floor finish, which is the latest in its line, and named it the "mushroom finish." It furnishes a hard, smooth finish, dustproof and durable, for rough concrete floors, especially in factories. Mr. Turner is just putting the mushroom floor finish on the market.

**BUILDERS' EXCHANGE PLANS OUTING.**

The regular monthly meeting of the Minneapolis Builders' Exchange this week, was the last till September. President Maurice Schumacher stated a committee would co-operate with the St. Paul exchange to plan for the annual outing, which will be a big event this year. Victor de Brauwere, architect, addressed the meeting in favor of the 140-foot limit for the height of buildings and urged the Exchange to have a delegation at the session of the Council Welfare Committee hearing next Wednesday.

**BUSINESS INFORMATION.**

The Atlas Engineering Co. of Milwaukee, Wis., has just published a very handsome catalog. Some new points which are noticeable are the large, plain type in which the whole book is printed and the handsome pictures on each page. An illustration of each concrete mixer is given and drawings showing the detailed construction are to be found in the back of the book. Copy sent on request.

Red Wing Sewer Pipe Co., Red Wing, Minn., has prepared a new edition of its interesting book about the making and use of Red Wing Pipe. Copy free on request.

Probably the most elaborate concrete mixer catalog sent out for some time, has been prepared by the Koehring Machine Co. of Milwaukee, Wis. The Koehring line is complete enough to fill a book of almost one hundred pages. The making of the Koehring mixers in detail is described first, and then a picture of each type of machine, together with a view of the machine out on the job, is given on the pages following. The complete specifications for each mixer are printed on a separate page. In this way, the contractor can readily determine just what he wants.

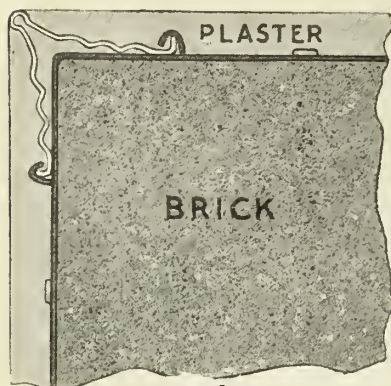
Pictures of the big Koehring plant indicate what progress the company has made lately and useful tables for the contractor bring the big, handsomely illustrated catalog to a successful close. Any contractor can have a copy free on request.

A little booklet presenting in condensed form, the facts about Vismara pure iron sheets and plates, has been received from the Inland Steel Co., Chicago, Ill. The making of the sheets is explained, many uses listed and tables of stock sizes given.

Folder from the American Cement Machine Co., Keokuk, Iowa, explaining little Boss Mixers, received.

A very handsome book printed in brown ink has been sent out by Harry Franklin Baker, landscape architect, to explain his work. Views of successfully planned grounds are given and price lists of decorative flowers and plants follow. Mr. Baker's address is 4629 Lake Harriet blvd., Minneapolis.





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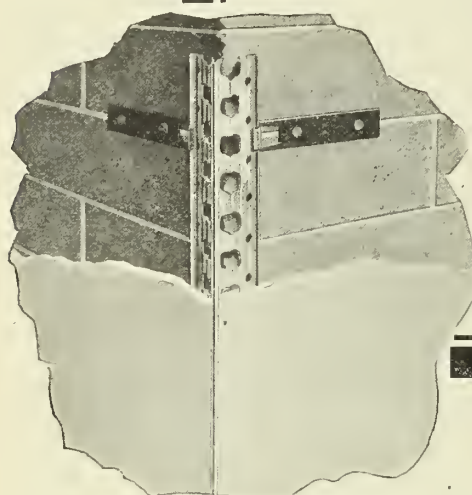
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We also manufacture Ferro-Lichic and Multiplex Reinforcing Plates, Metal Lath, Roofing, Steel Ceilings, Eaves Trough and Conductor Pipe, and Sheet Metal Building products of all kinds.



## THE TURNER MUSHROOM SYSTEM REINFORCED CONCRETE FLAT SLAB CONSTRUCTION

(Patented)



Interior view of a strictly modern factory building, in the construction of which the Turner Mushroom System of Reinforced Concrete was used.—The Kahn Tailoring factory building at Indianapolis, Indiana.

The recent decision of the Hon. Chas. A. Willard in the U. S. District Court of Minneapolis in the Drum vs Turner concrete patent case sets at rest pretended claims of Mr. Turner's imitators.

All infringers are being rigidly prosecuted, as Mr. Turner has in his employ at the present time five of the best known and most able firms of patent attorneys in the United States

**OWNERS, PROTECT YOUR OWN INTERESTS** by demanding that your flat slab designers furnish an infringement bond of an amount equal to the cost of your building. Demand a bond for a five-year term and make yourselves safe.

**THE MUSHROOM SYSTEM** is the original reinforced concrete flat slab system and is the only legitimate flat slab on the market today.

Designs and Estimates furnished by

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# CONSTRUCTION & CONTRACT NEWS

OF SPECIAL VALUE TO ENGINEERS, CONTRACTORS, BUILDERS AND MANUFACTURERS

## MINNEAPOLIS, MINN.

Office: 912 Lumber Exchange.  
Phones: N. W. 3902. T. S. 2194.  
Please telephone news not later than Wednesday.

Items marked with asterisks not in Daily Sheets.

### BUILDING PERMITS.

L. J. Bedard, 2923 Dorman av., 1½-story plaster veneer dwl.	5,900
City of Minneapolis, 600-10 S. 6th st., 8-story brick and reinforced concrete hospital; R. J. Cheney & Co., builders	130,000
Standard Bldg. Corp., 400-14 2d av. S. and 125-33 S. 4th st., 26-story steel, tile, granite and granite-terra cotta office building; contract not let.	1,500,000
Carl J. Johnson, 1309 22d av. NE., 1½-story frame dwl.	2,000
H. B. Upton, 2908-10 Holmes av., 2-story brick veneer flats (4); Albert Anderson, builder.	7,500
The Plymouth Brethren, 2941 5th av. S., 1-story plaster veneer mission hall; J. A. Fetterley, builder.	2,500
Richard A. Linquist, 1811 Pierce st. NE., 1½-story frame dwl.	2,000
D. W. Heitman, 2405 W. 22d st., 2-story plaster veneer flats (4); David Combs & Son, builders.	15,000
Geo. E. Sullivan, 4624 Bryant av. S., 2-story plaster veneer dwl.; H. L. McCoig, builder.	4,485
Harry L. McCoig, 2520 Lake of the Isles boul. W., 2-story plaster veneer dwl.; Harry L. McCoig, builder.	5,615
Fred C. Brittain, 3656 Garfield av., 1½-story frame dwl.; Geo. Adams, builder.	2,300
Anton Anderson, 1006 24th av. SE., 1½-story plaster veneer dwl.; Gabriel Amundson, builder.	2,500
Victor Bjorkland, owner and builder, 3300 E. 25th st., 1-story plaster veneer dwl.	2,200
Victor Bjorkland, owner and builder, 3302 E. 25th st., 1-story plaster veneer dwl.	2,000
Victor Bjorkland, owner and builder, 3304 E. 25th st., 1-story plaster veneer dwl.	2,000
C. C. McCarthy, 3829 Pleasant av., 2-story plaster veneer and brick veneer dwl.; H. J. Creswell, builder.	6,000
August N. Dyse, 3451 11th av. S., 2-story plaster veneer dwl.; Albert Anderson, builder.	4,000
Michael Casey, 152 Arthur av. SE., 1½-story frame dwl.; Albert Anderson, builder.	3,200
Albert Anderson, 1445 Lagoon av., 3-story brick flats (6); C. O. Taylor, 3841 3d av. S., 1-story plaster veneer dwl.; Andrew Stenvig, builder.	14,000
C. O. Taylor, 3837 3d av. S., 1-story plaster veneer dwl.; Andrew Stenvig, builder.	2,000
D. W. Heitmann, 2411 W. 22d st., 2-story plaster veneer flats (4); David Comb & Sons, builders.	13,500
D. W. Heitmann, 2415 W. 22d st., 2-story plaster veneer flats (4); David Comb & Sons, builders.	13,500
Andrew G. Nelson, 4824 S. Upton av., 2-story frame dwl.; Kingsley, builder.	2,000
Axel Doran, 4749 Vincent av. S., 2-story plaster veneer dwl.	2,000
G. A. Buhler, 3818 S. Upton av., 1½-story frame addition to dwl. and alterations; M. A. Thompson, builder.	2,500
W. A. Boelter, 3401-03 4th st. N., 2-story plaster veneer store and flat.	3,000
Carrie L. Newton, 3119 22d av. S., 1-story brick veneer and plaster veneer dwl.; Aug. A. Asp, builder.	3,100
Peters Home Bldg. Co., owners and builders, 3450 25th av. S., 1-story frame dwl.	2,200
Peters Home Bldg. Co., owners and builders, 2710 N. Sheridan av., 1½-story frame dwl.	2,000
Peters Home Bldg. Co., owners and builders, 3327 N. Queen av., 1½-story frame dwl.	2,000
Mrs. Oscar Rask, 2538 13th av. S., 1-story frame dwl.; Alfred Anderson, builder.	2,000
Hubert Fournier, 2017 Garfield av., 2-story plaster veneer duplex; W. E. Peterson, builder.	3,000
L. W. Wilkinson, owner and builder, 2121 S. Penn av., 2-story brick veneer flats (4).	7,500
M. E. Salisbury, 2433 Sheridan av. S., 2-story plaster veneer dwl.	5,500
Chas. and Geo. Ahlson, 319 5th st. NE., 1-story brick creamery; J. E. Johnson, builder.	2,800
L. C. Lamoreaux, 1908 Hennepin av., 3-story brick apartments (21); David Comb & Sons, builders.	40,000
John T. Hanley, 3517 Stevens av., 1½-story plaster veneer dwl.	2,000
Wm. H. Watts, 4834 36th av. S., 1-story frame dwl.; Bridgman & Ryan, builders.	2,300

W. Channing Whitney, architect, Loan & Trust building, has prepared plans for a modern residence, 2020 Pillsbury, for W. H. Lee, Hennepin County Savings Bank; contract awarded to Nels Jensen, 2523 E. 22d; brick veneer, steam heat, with vapor system, tile and marble fireplace, tile baths and vestibules, tile porch floors, hardwood floors and finish, white enamel finish, sun-room, sleeping porch, painting in general heat, plumbing and wiring not let.

Albert Anderson, contractor, 3321 15th av. S., is building a modern dwelling for Michael Casey, at 152 Arthur, 24x28, frame, \$3,200; also the modern residence for Aug. Dyse, 37x42, modern, tile bath, hot water heat, \$4,000; plans by E. H. Sund, architect, Andrus blk.; also a brick 6-flat for himself, at 4445 Lagoon, modern, 64x37, steam heat, \$14,000;

also 4-flat for H. B. Upton, 2908 Holmes, 40x52, 2-story, brick, \$7,500, modern; plans by D. C. Swain, architect, 705 Nicollet.

F. J. Kopp, artesian well contractor, of Minneapolis, Minn., has completed the largest well, for the C. M. & St. P. Ry. Co. at Bristol, S. D. It is the second big well Mr. Kopp has drilled for them. He has also completed a big well at Jamestown, N. D., for the N. P. Ry. Co. This is the second well for that line he has completed, and now is drilling a 10-inch well for the Lakewood Cemetery Assn., who have the deepest well in the state of Minnesota—2,150 feet deep.

Bertrand & Chamberlain, architects, N. W. Bank building, were chosen architects for the 25-story building projected for 2d av. S. and 4th st., for Geo. A. Mowry, Twin City Fire Insurance Co., Elks' building, 2d S. and 7th st. and others of Standard Building Corporation; many other plans were submitted; steel, tile floors, tile partitions, granite and terra cotta exterior, 8 high speed electric elevators; cost \$1,500,000.

Construction began this week with excavating for foundation, of a flour mill on trackage at 35th and Hiawatha av. S.; mill construction, Jas. Leck & Co., general contractors; excavating by S. J. Groves & Sons, Kasota block; cost \$50,000; owner's name withheld.

\*C. E. Bell, architect, Security Bank building, will have plans out next week for a modern residence, Tower City, N. D., for F. S. Sherman; brick and frame, modern, hot water heat, out side breakfast room and sleeping porch, brick mantel, tile floor in bath.

Plans for the Hennepin county hospital at Glen Lake, are being worked out by the committee; E. C. Gale, Security building and others, with the architect E. H. Sund, Andrus block; administration building, fireproof, tile and stucco; cottages, frame.

Haugen & Newstrom, architects, Iron block, 4th st. and 4th av. S., have completed plans and figures are being taken this week for Phillips garage, Excelsior, Minn.; owner will let plumbing, heating and wiring and wants figures on auto turntable.

David Comb & Son, general contractors, Lumber Exchange, will build the flat building, Hennepin av., for L. C. Lamoreaux, care of Long, Lamoreaux & Long, architects; 830 Hennepin; 21 apartments, 3-story brick, all modern, \$40,000.

Wm. M. Kenyon and Maurice F. Maine, architects, Metropolitan block, completed plans this week for mechanical equipment First National Bank, Owatonna, Minn., and bids will be taken during next ten days, by architects.

\*Permit issued for \$7,500 residence, 4805 S. Colfax for Mrs. Bessie Secombe, 31x34, 2-story brick, concrete block foundation, modern, hot water heat, contract not let, H. Edw. Walker, architect, Lumber Exchange.

Preparations have been started to build the steel and terra cotta store at 925-27 Nicollet for B. T. Harris, N. W. Knitting Co.; 1-story foundations for six; cost \$22,000; plans by Tyrie & Chapman, Auditorium block.

J. E. Nason, architect, Corn Exchange, has been commissioned to prepare plans for an opera house at Willmar, Minn., for traveling attractions; full stage equipment, brick, modern, 42x110; details later.

Geo. J. Betzler 3300 Holmes av., will build a plaster veneer and shingle dwelling at 3302 Holmes, 36x26, concrete foundation, hot water heat, fireplace, \$3,500; E. F. Wandersee, contractor, 1000 NE. Maine.

\*Plans for a \$15,000 church being considered to replace Vanderburgh Presbyterian church, burned; L. C. Huttner, 3244 Minnehaha av., in charge of rebuilding, may include gymnasium and library.

The S. Swenson Artesian Well Co., of Minneapolis, Minn., have just completed an 800-foot well, with a natural flow, of 250 gallons per minute, for the E. Fleckenstein Brewing Co., of Faribault, Minn.

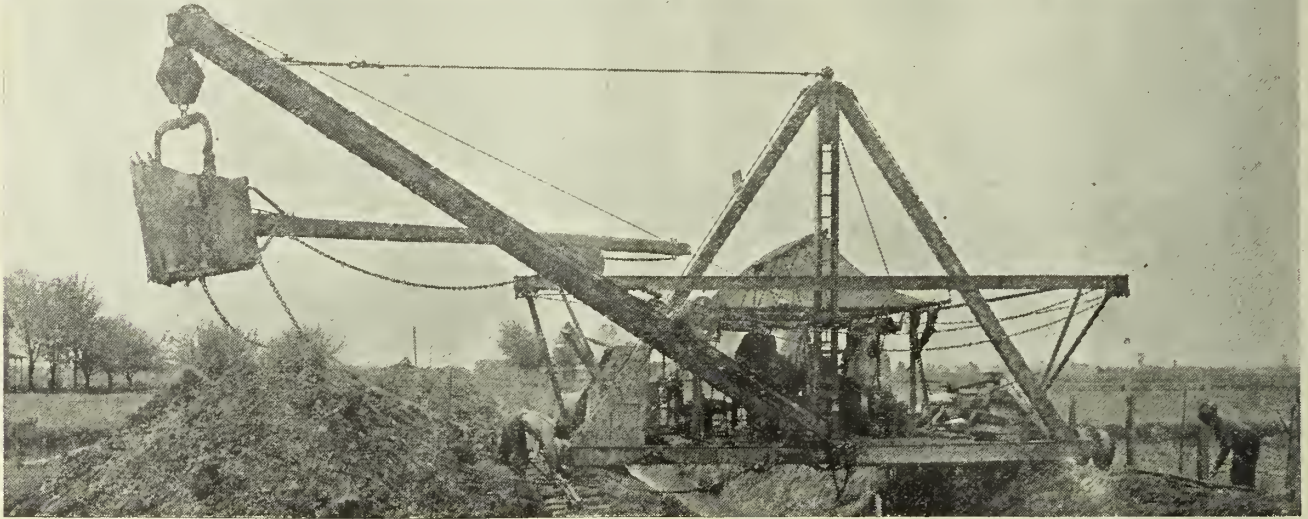
\*Maurice Schumacher, 30 Dell Place, was awarded contract for additions and alterations, home of the aged, Little Sisters of the Poor, 15 Broadway; Kees & Colburn, architects, Donaldson block.

Bids received till 2 p. m., May 12, for alterations of area, refrigerator plant, city hospital, by board of charities, 11 City Hall; Long, Lamoreaux & Long, architects, 830 Hennepin.

\*W. O. Clark, contractor, 540 Temple Court, will build the residence for E. A. Gast, 1814 Hillside av.; Downs & Eads,



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Here is a Bay City Land Dredge with one-yard dipper, 38-foot boom and 40 horse power kerosene engine

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is the most adaptable dipper dredge for land and water work. It is built to span the ditch. For water work it can be mounted on pontoons or scows. The steel construction gives it strength and minimum weight, while guaranteeing long usage.

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architects, New York Life, plumbing heating and wiring later.

Blanche M. Parker, 554 8th av. N., is building a plaster veneer with zrick foundation, 24x36, modern, hot water heat, \$3,500; J. W. Parker, Plymouth building, general contractors.

\*D. C. Bennett, 3323 Humboldt S., furnished plans and will build modern residence, 4235 Garfield, for Harris D. Newkirk, 30x44, plaster veneer, modern, hot water heat, \$4,500.

Hubert Fournier, 1507 Plymouth av., is building a duplex at 2017 Garfield, 30x35, concrete foundation, hardwood trim and floors, \$3,000; W. E. Peterson, contractor, 630 Adams.

H. J. Cresswell, 2900 Girard av. S., has contract for a plaster veneer dwelling, modern, hot water heat, fireplace, tile bath 3829 Pleasant, for C. C. McCarthy, 2647 14th av. S.

\*C. E. Bell, architect, Security Bank building, announces postponement of letting, Dart Manufacturing Co. building, Waterloo, Iowa, from May 12 to May 19, at Waterloo.

\*A 4-flat will be built by Chas. C. Almandinger, at 2809 27th av. S., 37x42, plaster veneer, modern, hot water heat, \$5,000; plans by Leonard Olson, contract to Peter H. Olson.

M. E. Salisbury, 315 SE. 4th, is building a 2-story plaster veneer modern residence at 2433 Sheridan, 32x51, hot water heat, tile bath, sleeping porch, \$5,500, day labor.

John Ecklund, 4054 Blaisdell av., has contract for a modern residence, 1-story, plaster veneer, 32x42, 5109 Harriet, for J. C. Vincent, \$4,400; hot water heat, mantel.

E. H. Sund, architect, Andrus building will have plans out in about two weeks, for surgical hospital for Messrs. Stemsrud & Johnson, at Dawson, Minn.

The S. Swenson Artesian Well Co., have just completed a 12-inch well about 800 feet deep, for the American Linen Supply Co., of Minneapolis, Minn.

Art galleries will be built on State Fair grounds; J. C. Simpson, secretary, Fair Grounds; M. I. Flagg, director, state art society, Old Capitol, St. Paul.

L. W. Wilkinson, 3714 Pillsbury av., will build a brick veneer four-flat, at 2121 S. Penn, 38x68 concrete foundation, hot water heating plant, \$7,500.

A store and flat will be built by W. A. Boelter, 209 S. 9th st., at 3401 4th st. N.; 22x50, 2-story, plaster veneer, concrete foundation, \$3,000; day labor.

\*Figures on heating Horace Lowry residence were taken this week until Friday, May 8, by the architects, Kees & Colburn, Donaldson block.

Hearing May 25, 10 a. m., at special meeting county board, on proposed county ditch 25, to Bassets creek; A. P. Erickson, county auditor.

Bids received till 11 a. m., May 25, for building bridges in Edina; plans with county surveyor, Court House; also for other bridges.

Bids received till 11 a. m., May 18, for painting bridge 8, by county board, Court House; specifications with county surveyor.

Permit issued for St. Helena Catholic church, 4253 33d av. S., \$10,250; P. and A. Frankman, contractors, 4457 35th av. S.

W. D. Lovell, 1415 8th st. SE., will build the stone dormitories at Navajo, Arizona, for the Navajo Indian reservation.

Park board will build a band float on Lake Harriet; boulevard curbed and widened; total outlay \$45,000.

Fire destroyed \$20,000 lake residence of F. M. Crosby, Ferndale, Minnetonka; president Chamber of Commerce.

\*Burner & Mather, architects, have moved into fine new quarters, 9th floor, suite 945 McKnight building.

House, barn and other buildings of Thomas Frain, 4801 4th st. NE., burned; loss \$2,400.

## SIoux CITY, IOWA

Sioux City Office: 310 Iowa Building. R. V. Sager, Representative.

\*Beuttler & Arnold, architects, Security building, are taking bids on the flats for Kalish Bros.; bids on general contract opened May 11, heating and plumbing May 14.

\*Geo. W. Burkhead, architect, is drawing additional plans for office and factory for Wayt & Sons, Sac City, Iowa; completion of the second story and installing elevator.

\*Bids opened May 9 on garage at Anthon, Iowa, by president of Anthon Auto Association; Beuttler & Arnold, architects, Security building.

\*Geo. W. Burkhead, architect, Grain Exchange building, is drawing plans for remodeling First National Bank, Marcus, Iowa; cost, \$2,000.

\*W. L. Steele, architect, United Bank building, is drawing plans for a Carnegie library at Armour, South Dakota; brick, tile roof, \$7,500.

## ST. PAUL, MINN.

404 Scandinavian American Bank Building.

Phone: N. W. Cedar 1683.

Mail or telephone news not later than Wednesday.

Items marked with asterisks not run in Daily Sheets.

### Building Permits.

Edward W. Severson, 1½-story frame dwl., Chilcomb near Primpton; F. E. Frederick, builder.....	2,700
E. G. Walton Agency, 148 Endicott, 1-story frame dwl., Topping near Farrington; E. G. Walton Agency, builder. Paul Krieger, 1-story frame dwl., Edmund near Milton; A. H. Vadnais, builder.....	2,100
A. H. Vadnais, 930 Oakdale, 1½-story frame dwl., 1024 Conway near Cypress; A. H. Vadnais, contractor.....	3,000
Fred Bohner, 1550 Grantham, 1½-story frame dwl., 1550 Grantham; E. D. Cairl, builder.....	2,000
F. J. Whiting, 2½-story frame and stucco dwl., Fairmount near St. Albans; Perry A. Swanson, builder.....	1,600
J. B. Forrest, 4-story brick and concrete apartment house, St. Peter near Summit; J. H. Nickel, builder.....	12,000
Board of Education, 2-story brick and concrete addition to Ramsey school, Grand near Cambridge; C. E. Wiesehle, builder.....	50,000
Ellen J. Maher, 957 Iglehart, 2-story frame dwl., Ashland near Fairview; Frank Sjordand, builder.....	19,000
F. E. Irish, 1779 Dayton av., 1½-story frame dwl., Asland near Dewey; John Dunnivan, builder.....	3,500
Fred Swanson, 1491 Blair, 2-story frame dwl., 1442 Van Buren near Pascal; Fred Swanson, builder.....	3,000
University Garage, 1-story brick and concrete garage, Marion near Sherburne; Craftsman Building Co., builders.. The Golden Rule, addition and alterations, Robert st. near 7th; F. J. Romer Const. Co., builders.....	8,000
Nentzling, 1½-story frame dwl., Charles near Dunlap; Vic-J. Sandell, builder.....	100,000
C. A. Ecklund and W. B. Olson, 959 Burr, 2-story frame duplex, Portland near Wheeler; John Olson, builder.....	2,200
Mrs. Mary Nichols, 1844 Iglehart, 2-story brick veneer dwl., Portland near Wheeler; H. J. Frandsen, builder.....	5,000
J. M. Bende, 1074 Sherburne, 1½-story frame dwl., Sherburne near Oxford; R. A. McLellan & Son, builder.....	12,000
Minnie C. Sutmar, 101 S. Milton, 1½-story frame and stucco dwl. and garage, Goodrich near Milton; John Peterson, builder.....	2,000
A. A. Price, 2-story frame dwl., Lexington near Hague; J. A. Posey, builder.....	4,500
Jos. McCarthy, 2-story frame dwl., 964 Fairmount near Milton; Jos. McCarthy, builder.....	3,300
L. Mogelson, 225 E. 14th, 2-story frame duplex, Broadway near University; Abe Margoles, builder.....	3,000
Geo. Vandertuuk, 568 Selby, alterations and repairs frame bldg., 568 Selby near Kent; L. W. Baumeister, builder.. F. B. Thompson, 1575 Summit, alterations and repairs to garage, 1575 Summit near Saratoga; L. W. Baumeister, builder.....	4,000
Henry Sandholdt, 2-story frame dwl., 77 Langford Park pl.; Paul Steenberg Const. Co., builders.....	3,500
Edman & Fridholm, builders, 327 Grove, 1½-story frame dwl., Cleveland near St. Clair.....	4,300
E. M. and H. F. Ware, 1½-story frame dwl., Thomas near Hamline; John Florin, builder.....	2,000
John Florin, builder, 1396 aVn Buren, 1½-story frame dwl., Bates near McLean.....	2,600
Ida M. Kimball, 441 Fairview, 1½-story brick and veneer dwl., 44 S. Prior near Summit; R. E. Kimball, builder..	3,200
Ida M. Kimball, 441 Fairview, 1½-story brick and veneer dwl., 36 S. Prior near Summit; R. E. Kimball, builder..	2,500
Martin Peterson, 1½-story frame dwl., 1122 Rose near Frank; A. J. Erlanson, builder.....	2,500

C. H. Johnston has plans completed for the school of mines, \$145,000, University of Minnesota; mechanical engineer C. L. Pillsbury, 805 Metropolitan Life building, Minneapolis; press and common brick, Bedford stone, reinforced concrete, metal skylight, structural iron; bids till May 11, (Monday) on ladies' gymnasium, university, 3-story, 80x200, \$125,000; architect; face and common brick, stone, reinforced concrete, frame, slabs, structural iron.

Contract awarded to A. Guthrie & Co., 301 Endicott building, for grading trolley line, connecting Main campus, state university, Minneapolis, with farm school St. Paul; \$10,307; S. J. Groves & Son, Minneapolis, \$10,734; Moy & Johnson, St. Paul, \$10,631; Friedrich & Barnard, Minneapolis, \$13,106; Baumgardner Co., \$13,781; bids of Cook Construction Co., St. Paul, handed in one hour late, not considered.

\*C. A. Bassford, architect, Gilfillan block, has furnished plans for a frame and stucco, 2-story dwelling, for Elmer J. Kennedy, 321 Nelson av., 28x30, hot water heat, beam ceiling sleeping porch, brick fireplace, stone foundation, Bedford base, built-in sideboard and bookcases, arch opening, shingle roof, trays, comp. brackets and cornice, all figures taken by owner, \$5,500.

Alban & Lockhart, architects, Chamber of Commerce building will have plans out May 15, for 1-story and basement addition to Merchants National Bank, Milbank, S. D.; tile floors, brick and hollow tile walls, hot water heat, plumbing, birch and mahogany finish, vault, safety deposit vaults, skylight, add. fixtures; owners will let work.

\*Buechner & Orth, architects, Shubert building, have prepared plans for a service building, for Emporium store, 7th and Robert, 5-story, 50x50, steel, hollow tile, floor arches,



fireproof, electric freight elevator, 28x8 feet, 2 electric elevators, 10x20; plumbing and wiring, bids for steel and terra cotta, to be taken at once by architects.

Alban & Lockhart, architects, Chamber of Commerce building, announce bids will be taken for Nora Springs, Iowa, high school, until May 25, fireproof, brick hollow tile steam heat, finished basement, gymnasium, manual training, domestic science equipment, steel locker; official advertisement in Improvement Bulletin this week.

\*Alban & Lockhart, architects, Chamber of Commerce building, will have plans out in two weeks for State Bank of Cottonwood, Minn., 1-story, 24x64, brick and stone, hardwood finish, tile and hardwood floors, pitch and gravel roof, plate glass, metal doors and frames, two vaults, plastered walls; owners will let work.

\*C. A. Bassford, architect, Gilfillan block, has plans out for a residence for W. D. Snyder, 1299 Margaret, frame, 28x36, stucco, hot water heat, concrete foundation, sleeping

porch, tile bath, modern, \$3,000; sideboard, bookcases, window seat, etc.

\*C. A. Bassford, architect, Gilfillan block, has prepared plans for a double house, University av., for H. J. Molitor, 733 Aurora av., 34x40, frame, modern, hot water heat, concrete foundation, sleeping porches, column arches and bookcases, sideboards, 2 baths, 2 heating plants; owner taking all bids; \$5,500.

\*A. F. Gauger, architect, Scandinavian American Bank building, has awarded contract for G. Vanderhuuf, residence, to Louis Baumister, 1145 Ross, new plumbing, heating and wiring, remodeled frame; vacuum cleaning, to H. S. Brunson, 308 McClure building, rep. United Electric So., Tuec system.

\*Mather & Burner, architects, Pioneer building, prepared plans for the improvements at the F. B. Thompson residence, 1575 Summit; iron fence, brick and concrete walls, ornamental iron gates, concrete drive; garage, alterations,

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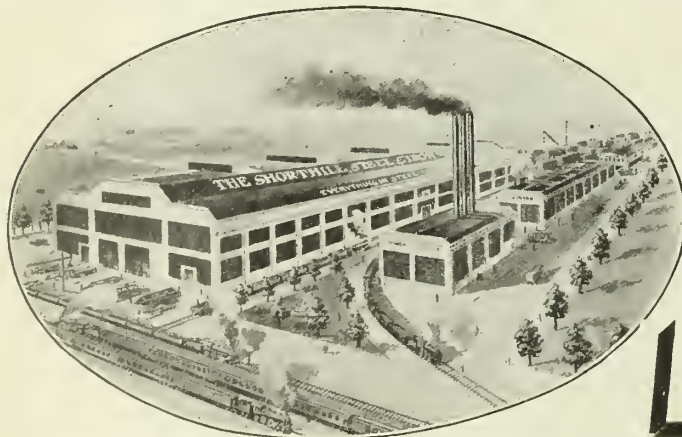
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Cleveland—419-20 Citizens' Bldg.  
Detroit—Builders' Exchange.

Philadelphia—411 Walnut St.  
Boston—49 Federal Street.  
Duluth—316 W. Michigan St.  
Milwaukee—Stroh Bldg.  
Rochester—38 Exchange St.  
Dallas—Builders' Exchange.  
Los Angeles—928 S. Main St.





\$4,000; general to L. W. Baumeister; ornamental iron to Herzog.

\*Alden & Harris, architects, Commerce building, let contract for alterations 389 Robert to N. P. Fransen, 628 Endicott, new front, new plumbing and heating, tiling, plate and prism glass, marble work, plumbing and heating let later by architects; Hamm Brewing Co., owners.

\*Contract for the Mundy residence has been awarded to Lindstrom & Anderson, 1493 Grand av., painting not included, mechanical equipment later, Summit near Snelling, brick and one-half timber; Thos. G. Holyoke, architect, Endicott building.

C. H. Johnston, architect, 715 Capital Bank building, completed plans this week for superintendent's residence, Hastings, Minn., 2½-story, \$15,000; mechanical engineer C. L. Pillsbury, 805 Metropolitan Life building, Minneapolis; owner State of Minnesota; brick, stone and stucco, brick mantels.

\*Alban & Lockhart, architects, Chamber of Commerce building, will have plans ready May 12, for a State Bank of Withrow, Minn.; brick hollow tile, stone, frame, gravel roof, vaults, hardwood finish, tile floors and mahogany fixtures, plate glass; owner will let all work.

Charles Skooglund, Ryan annex, has started work on the Geo. Thompson, residence, 340 Summit; A. H. Stem, architect, Endicott building; work will be started soon by same contractor on the Lenox Hotel, Robert st.; F. G. Holyoke, architect, Endicott building.

Peter J. Linhoff, architect, Germania Life, has completed plans for fish hatchery; 1½-story, 30x60, Granite Falls, Minn., owner, State of Minnesota, care State Game & Fish commission, St. Paul; plans completed May 6, concrete blocks and foundation, shingle roof.

H. E. Erickson, architect, 304 American National Bank building has completed plans for the double residence, sleeping porches, 2-story and basement, 26x46, \$6,000, Avon and Hague av.; Wm. Bergstrom, 820 Payne av., frame, shingle roof.

\*Contract for residence for O. P. Gruner, 530 Charles st. let to Richter & Cadez, 876 Thomas, plumbing, heating and wiring, not included; foundation to Emil Pankonin, 703 Sherburn; H. A. Miller, architect, Pittsburgh building.

\*Cameron & Co., contractors, Ryan annex, are building the addition to Q. M. department, Ft. Snelling and hay shed; Menomonie red brick; Chaska brick; galvanized iron work, to Staple Bros.

Bids received till 7 p. m., May 20, for equipment new school building by So. St. Paul school board; J. R. Stevenson, secretary; list on application; check \$50.

Wm. Baumeister Co. has the contract for remodeling, 319 Robert; Muehlbauer & Stoesser, owners; Bentley & Hausler, architects, 1611 Pioneer building.

\*Bids will be in on May 18, for alterations in city hall; minor changes in various parts of building; Alden & Harris, architects, Commerce building.

\*New bids on the Ideal theater, South St. Paul, will be opened May 9, plans revised by Toltz Engineering Co., Pioneer building.

## HEAD OF THE LAKES

Office: 206 Manhattan Building. Telephone: Auto 3036.  
Mail or telephone news not later than Wednesday.

Items marked with asterisks not in Daily Sheets.

### DULUTH.

Bids will be received till May 15, on manual training school (lecture room seating 200): 2-story and basement, 100x200, \$60,000, Eveleth, Minn.; architects, Bray & Nystrom, 1200 Fidelity building, Duluth; owner town of Eveleth, F. O. Greening, superintendent of construction, board of education, Eveleth; separate bids on steam heating, plumbing and electric work; face brick, stone or terra cotta, reinforced concrete, tar and gravel roof, structural iron.

Plans completed May 15, for bank, 2-story and basement, 25x90, \$20,000; Eveleth, Minn., for Miners' National Bank; architects Bray & Nystrom, 1200 Fidelity building, Duluth; Mr. Hole, cashier, Eveleth; face brick and stone, tar and gravel roof, metal skylight, structural and ornamental iron.

E. P. Shurick, architect, 1006 Tarvey building, has plans in progress for summer residence; 2-story and basement, \$14,000, Two Harbors, Minn., for P. Madler, Security Bank building, Minneapolis; face brick, hollow tile, stucco, reinforced concrete construction, brick mantels, Berry Bros.' varnish.

\*West Duluth will have a new \$12,000 business block. Excavation for a 2-story brick veneer building will begin next week. The building will be erected by A. Fieldman, at 314 North Central av. It will have a full basement and will be 115 feet long, with a 25-foot front.

Preliminary plans for a large convention hall to be built by the Finnish organization of the northwest in Duluth have been prepared by Lignell & Loebeck, architects, 100x140; cost \$100,000; seat 1,200, 4-story and basement; lower stories concrete, upper stories steel skeleton.

Contract to Appleby Bros., city, for dwelling for Mrs. Margaret P. Jefferies, \$15,000, double frame structure; F. G. German, architect; work begun; stone foundation, modern throughout.

\*Permit taken out for additional story to McKay hotel, will add 50 rooms; improvements will be made in entire hotel, steel elevator, telephone in every room; W. A. McKay, owner.

Plans for high school at Barnesville, Minn., have been completed by E. F. Broomhall, architect, 710 Alworth building cost \$55,000.

\*Work begun on extension of water works from New Duluth to Gary; cost \$44,000.

### SUPERIOR.

Wangenstein & Giliuson, architects, are taking bids on general contract and also on additional electrical work on a 22-room addition to hotel owned by Walter J. Hoch; tar and gravel roof, 5 metal skylights, structural iron.

The Douglas County Medical Society will urge the county board to build a city and county hospital; Dr. W. H. Zwickey active in the work.

May 11 has been fixed as the time for road machinery demonstration for the benefit of the county board, tractors, graders, etc.

## MILWAUKEE, WIS.

Office: Hathaway Building; Telephone Main 1827.  
Mails news to Minneapolis office not later than Wednesday.

The Badger Architects, 916 Walnut st., have commenced taking bids on a duplex flat at 53d st. and Washington boul., for R. Malnakoff; 2-story and basement, 24x52, frame construction, brick foundation, furnace heating, oak finish; cost \$7,000. Are making preliminary plans for a store and three apartment buildings to be erected on Fond du Lac av. near 18th st.; solid brick, 2-story, 26x70, tile work, hot water heating; cost \$8,000. Close bids this week on a duplex for erection at 14th and Burleigh sts.; frame construction, 24x46, cement block foundation, furnace heating. Have awarded following work: Duplex for Max Goodsitt, 15th st. between Garfield av. and Lloyd st., general contract to Scheer & Cohan; store and flat for I. Silber, 617 10th st., general contract to B. Mendelson; bungalow for Robert Siehr, Keefe av., mason, Lex Bros.; heating, Hess Warming & Ventilating Co.; J. A. Brown & Co., store remodel at 418 Milwaukee st., fixtures, R. Malnekoff.

Architects Kirchoff & Rose, Majestic building, have awarded additional contracts on business block at 382 E. Water st.; the carpenter to H. Schmidt & Sons; heating, C. J. Fox.

Architects Wolff & Ewens, 437 E. Water st., are taking bids this week on the erection of a store, theater and flat building for the Fred Miller Brewing Co., on 5th st. and Grand av.; to be 3-story and basement, 142x204, brick and tile, terra cotta front, reinforced concrete, tile flooring and wainscoting, steam heating, composition roofing, art and plate glass, dumb waiters, marble; cost \$125,000.

Architect Robert H. Schmitz, Berlin Arcade building, has awarded additional contracts on bungalow for Mrs. Anna Mahon at 13th av. near National av., the electrical work to the American Electric Co. Is preparing preliminary plans for a duplex flat on Sherman boul.; to be brick veneered, 2-story and basement, 34x55, with tile fireplaces and hot water heating; cost \$8,000. Will take figures on a bungalow on northeast side, name and location withheld; frame and stucco, concrete block foundation, 28x36, hot water heating, asphalt shingles, art glass; cost \$5,000.

Architect Albert Michalak, 642 Becher st., closes bids May 12, on the erection of a parsonage for St. Hyacinth's congregation at 10th and Becher sts.; brick veneer, 2-story and basement, 20x36, hot water heating. Preparing plans for a store and flat at 1105 Packard av., Cudahy, for S. Iwinski; brick veneer, brick foundation, 2-story and basement, 24x62; no heating; owner will take bids; cost \$4,500. Has awarded on duplex for John Novakowski at 745 5th av.; Masonry, Joseph Tucholka; plumbing, Stemper Bros.; electrical, National Electric Co.

Architects Leenhouts & Guthrie, 424 Jefferson st., have awarded additional contracts on several buildings, as follows: Church, 38th st. and North av., painting to Landwehr; residence for R. M. Thayer, 7th av. and Lake st., Wauwatosa, plumbing, A. W. Glawe. Will take bids within a few days on a parsonage for the First German Reform church, 9th



# PROPOSAL ADVERTISING FOR BIDS

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### SEWER TANK, ETC. Warren, Minn.

Sealed proposals will be received by  
the City Council of the City of Warren,  
Minnesota, up to 8 P. M., Friday, May 22,  
1914, at the City Hall building in the  
City of Warren, Minn., for the extension  
of the present sewer from the present  
terminus of the sewer to and across the  
Snake River on Forest and River Ave-  
nues to the Snake River, and for the  
building of an Imhoff Tank, Filter Beds  
and all other necessary appurtenances  
thereto.

Plans and specifications can be found  
at the office of the City Recorder.

Bidders will be required to view the  
grounds and surroundings before sub-  
mitting bid.

All bids must be accompanied by a  
certified check on a State or National  
Bank of this State for not less than ten  
per cent of the amount of the bid.

The right to reject any or all bids is  
reserved.

By order of the Common Council.  
G. O. CROSS, City Recorder.

### SCHOOL. Madison, Minn.

The undersigned hereby gives notice  
that sealed proposals for the erection  
of a Parochial School, Madison, Minn.,  
will be received by Rev. Val. Schiffrer  
and the Building Committee until the  
hour of 8 P. M., on the 12th day of May,  
1914. The entire excavation for the  
building will be done by the Parish.

Plans are on file at the residence of  
Rev. Val. Schiffrer, Madison, Minn., and  
at the office of E. J. Donohu, Architect,  
650 Gillfillan Block, St. Paul, Minn.

A certified check for \$200.00, payable  
to the order of The Church of St. Mich-  
ael, must accompany each bid as a guar-  
anty, the same to be returned to unsuc-  
cessful bidders immediately on letting  
the contract.

The right is reserved to reject any or  
all bids.

### NOTICE TO CONTRACTORS. Bank, Tower City, N. D.

Sealed proposals will be received up  
to twelve (12) o'clock noon of the 15th  
day of May, 1914, for the labor and mate-  
rial necessary for the erection and com-  
pletion of the First National Bank Build-  
ing, upon the Bank's property at Tower  
City, N. Dak., and all to be in full ac-  
cordance with plans and specifications  
therefor as prepared by C. E. Bell, Archi-  
tect. Plans can be had of the Owner at  
Tower City, N. D., and of the Architect  
in Minneapolis. All proposals must be  
in duplicate and addressed to S. F. Sher-  
man, Cashier, Tower City, N. D., and  
plainly endorsed "Proposal for Bank  
Bldg." Owner reserves the right to re-  
ject any and all bids.

## PROFESSIONAL DIRECTORY

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**NOTICE TO CONTRACTORS.****School, Maddock, N. D.**

Sealed bids will be received up to one o'clock P. M., May 25, 1914, at Maddock, Benson County, North Dakota, for the erection and completion of a ten-room, brick school house for Viking School District No. 9 at Maddock, Benson County, North Dakota.

All bids must be addressed to I. J. Hauge, Clerk of said School District, at Maddock, Benson County, North Dakota, and must be marked "Bids for School House."

Each bid must be accompanied by a check of \$500.00, in favor of Albert Hesla, President of the School Board, as good faith to enter into contract and furnish satisfactory bond for double the amount of the contract price.

After the said bond is approved and accepted by the School Board, the check will be returned to the contractor.

Heating and ventilating bid and plumbing bid must be tendered separately from the general bid. The bond must be in the same proportion as the General Bid and the contract. Certified check for \$100.00 must accompany each bid.

The Board reserves the right to reject any and all bids.

Plans will be on file from April 23, at the Clerk's Office at Maddock, North Dakota; at the Builders' Exchange at Grand Forks, North Dakota; at the Builders' Exchange at Fargo, North Dakota, and at the Builders' Exchange at Minneapolis, Minn.

J. W. ROSS & SON,  
Architects.

I. J. HAUGE,  
Clerk.

**ELECTRIC WIRING.****State Normal, Mayville, N. D.**

Notice is hereby given that bids will be received up to 12 o'clock noon on Friday, May 29, 1914, at the office of the State Normal School at Mayville, North Dakota, for rewiring the main building of the normal school in accordance with plans and specifications prepared by Hancock Bros., Architects, Fargo, N. D., which plans and specifications may be seen after May 1, 1914, at the offices of the architects in Fargo, and at the Builders' Exchange in Grand Forks, N. D. and Minneapolis, Minn.

All bids must be sealed and each accompanied by a certified check for \$250 as a guarantee that the bidder, if successful, will enter into contract. Bids should be addressed and checks drawn to the undersigned.

The Board of Trustees reserves the right to reject any or all bids.

THOS. A. HILLYER, President.  
Mayville, N. Dak.

**HEATING, VENTILATING AND PLUMBING FOR SCHOOL BUILDING.****Le Sueur Center, Minn.**

Sealed proposals will be received by the Board of Education, Le Sueur Center, Minnesota, until Friday, May 22, 1914, at 2 o'clock P. M., for installing heating, ventilating and plumbing in the school building which is now being enlarged and remodeled, according to the plans and specifications prepared by H. C. Gerlach, Architect, Mankato, Minn. As now contemplated, the work covered by this notice must be completed not later than August 15th. Separate bids for heating and ventilating, and for plumbing will be considered. The bidders for plumbing must give separate bids for septic tank and piping outside the build-

ing. Each bid must be accompanied by a certified check for five per cent of the amount of the bid, payable to the Board of Education or the undersigned as secretary, as evidence of good faith. The checks of the unsuccessful bidders will be returned forthwith, and the check of the successful bidder will be returned when the contract is executed and a bond securing the same is given and approved. A surety company bond in the full amount of the contract price will be required. Plans and specifications may be seen on and after May 11th at the office of the architect, at the office of the undersigned, and at the Builders' Exchange at Minneapolis and St. Paul.

The right is reserved to reject any or all bids.

Bids should be addressed to the undersigned, properly marked.

Dated May 1, 1914.

CHARLES C. KOLARS,  
Secretary.

**BRICK CHURCH BUILDING.  
Plato, Minn.**

The undersigned hereby gives notice that sealed proposals for the erection of a brick church building to be erected at Plato, Minn., for the Evangelical Saint Paul's congregation, including all labor and material, will be received by the Building Committee until the hour of 11 a. m., on the 22d day of May, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by Albert Schippel, architect of Mankato, Minn., which may be seen at the office of the architect at the Builders' Exchanges of Minneapolis and St. Paul, Minn., and may also be seen on application to Minder Mercantile Co., General Store at Plato, Minn.

A certified check for 10 per cent, payable to the order of F. M. Graupmann, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the sum of full amount of his contract for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed) F. M. GRAUPMANN, Chairman.

ALBERT SCHIPPEL, Architect.  
Place, Mankato, Minn.  
Date, April 21, 1914.

**TREASURY DEPARTMENT,** Supervising Architect's Office, Washington, D. C., April 28, 1914.—Sealed proposals will be opened in this office at 3 p. m., June 10, 1914, for the construction complete (including mechanical equipment, lighting fixtures, and approaches) of the United States postoffice at Lake City, Minn. One-story and basement building; ground area, 3,800 square feet; first floor fireproof; stone and brick facing with ornamental terra-cotta cornice, etc.; composition roof. Drawings and specifications may be obtained from the custodian of site at Lake City, Minn., or at this office in the discretion of the supervising architect. O. WENDROTH, Supervising Architect.

**NOTICE TO CONTRACTORS.****School Building and Improvement. Sanborn, Iowa.**

The undersigned hereby gives notice that sealed proposals for the erection of a school building to be joined to the present school house and repairs on the present school building in said town, in-

cluding all labor and material will be received by W. A. Solon, Secretary of the School Board of the Independent School District of Sanborn, Iowa, at the office of said Secretary in Sanborn, Iowa, until the hour of one o'clock P. M., on the 1st day of June, 1914. All bids must be in strict accordance with the plans and specifications prepared by J. G. Ralston, Architect of Waterloo, Iowa, which plans and specifications may be seen at the office of W. A. Solon, Secretary of said School Board in Sanborn, Iowa, on and after the 18th day of May, 1914, at which time said plans and specifications may also be seen on application to the said J. G. Ralston, Architect, at his office in Waterloo, Iowa.

A certified check for \$900.00, payable to the order of the Independent School District of Sanborn, Iowa, must accompany each bid as a guarantee of the bidder's good faith in making said proposal to contract, the same to be returned to unsuccessful bidders immediately on letting the contract. The person to whom the contract is awarded will be required to give a bond with sureties to be approved by said school board in the sum equal to 25 per cent of the amount of their bid, for the faithful performance of the contract, and also carry liability insurance on the men employed on the work in an amount satisfactory to the board.

The right is reserved to reject any and all bids.

Signed.

The Independent School District of Sanborn, Iowa.

By F. W. HORTON,  
President.  
W. A. SOLON,  
Secretary.

Sanborn, Iowa, April 30, 1914.

**BIDS FOR BRICK HIGH SCHOOL.  
New England, N. D.**

Sealed bids will be received by W. N. Burud, Clerk, New England, N. D., up to the hour of 10 o'clock A. M., May 30, 1914, for the erection of a brick grade High School Building to be erected in the village of New England, Hettinger County, N. D.

All bids must be in strict accordance with plans and specifications prepared by Haxby & Gillespie, Architects, Fargo, N. D., and must be accompanied by a certified check for 5 per cent of bid, made payable to Dr. J. W. Strivling, chairman of the Board, as an evidence that the bidder will enter into contract if awarded the work.

Plans can be seen at the following places after May 15th: Builders' Exchanges, Fargo, N. D.; Bismarck, Minneapolis, St. Paul, and at the office of the Clerk and Architects.

If plans are wanted for personal use they can be had from the Architects for \$5.00 per set; plans to be returned to the Architects on the day of opening bids.

Bids will be taken at the same time and place and under like conditions for the Heating, Plumbing and Wiring of the Building.

The Board reserves the right to reject any or all bids.

By order of the Board.

DR. J. W. STRIVLING, President.  
W. N. BURUD, Clerk.  
HAXBY & GILLESPIE, Architects,  
Fargo, N. D.

(Continued on page 20.)



# CONTRACTORS BONDS AND EMPLOYERS LIABILITY INSURANCE

EQUITABLE SURETY COMPANY  
Assets \$1,484,744.80

Surety Bonds Executed Here  
Casualty Insurance  
Phone 622

"NO RED TAPE OR DELAY" THE OCEAN ACCIDENT & GUARANTEE  
CORP. Assets 4,776,085.18

**Hood & Penney Company, General Agents**

PHOENIX BUILDING,  
Minneapolis  
Minn.

## PROPOSAL ADVERTISING FOR BIDS

**PROPOSALS FOR THREE HOSPITALS**  
Department of the Interior, Office of Indian Affairs, Washington, D. C., April 13, 1914. Sealed proposals, plainly marked on the outside of the sealed envelope: "Proposals for Hospitals, Cheyenne River, Rosebud and Standing Rock Indian Reservations, North and South Dakota," and addressed to the "Commissioner of Indian Affairs, Washington, D. C.," will be received at the Indian Office until 2 o'clock p. m., on May 21, 1914, for furnishing materials and labor for the construction of a frame hospital on the Standing Rock Reservation, North Dakota, and brick hospitals on the Cheyenne River and Rosebud Reservations, South Dakota, in strict accordance with the plans, specifications and instructions to bidders, which may be examined at the office of the paper or periodical in which this advertisement appears, the U. S. Indian Warehouses at Chicago, Ill., St. Louis, Mo., Omaha, Neb., and San Francisco, Cal.; the Builders' Exchanges at St. Paul, Minn., and Aberdeen, S. D., and at the several Schools. For further information apply to the Superintendents of the Cheyenne River Indian School, Cheyenne Agency, South Dakota, Rosebud Indian School, Rosebud, South Dakota, and the Standing Rock Indian School, Fort Yates, North Dakota. CATO SELLS, Commissioner.

### NOTICE OF RECEIVING BIDS FOR RESERVOIR ROOF, AT INDEPENDENCE, WISCONSIN.

Sealed bids to be directed to Jacob Jackson, Clerk of the Village of Independence, Wisconsin, will be received until eight o'clock P. M., of May 14th, 1914, for a reservoir roof, according to the plans and specifications prepared by George P. Bradish of La Crosse, Wis.

Plans and specifications can be obtained at the office of the Village Clerk at Independence, Wisconsin.

A certified check for five per cent of the amount of the bid must accompany each bid, payable to the Village Clerk of said Village, as a guaranty of good faith that the bidder will enter into con-

tract if contract is awarded. The Village Board of said Village reserves the right to reject any and all bids.

All bids must be sealed and addressed to the Village Clerk of Independence, Wisconsin, with the name and address of bidder on outside of envelope.

Successful bidder will be required to give a bond in the sum of Five Hundred Dollars for the satisfactory performance of the contract. The work must be finished on or before the 15th day of July, 1914.

Dated at Independence, Wisconsin, April 24th, 1914.

JACOB JACKSON,  
Village Clerk.

### DRAINAGE DITCH NO. 28.

Ivanhoe, Minnesota.

I will sell the job of contracting Judicial Ditch No. 28, Lincoln County, Minnesota, at my office in Ivanhoe, Minnesota on the 9th day of May, 1914, at 10 o'clock, A. M.

The approximate work to be done is as follows: 2,885 feet of 15-inch tile; 4,115 feet of 12-inch tile; 2,303 feet of 10-inch tile, average depth of drain about 7 feet, greatest depth 9 feet, estimated cost of construction \$2,899.33.

All bids to be accompanied by a certified check for 10 per cent of amount bid.

KARL A. HANSEN,  
County Auditor.

### NOTICE TO CONTRACTORS.

Colfax, Wis.

Office of Village Clerk, Colfax, Wis.,  
April 28, 1914. Official publication.

Notice is hereby given that sealed proposals will be received by the Village Board of Colfax, Wis., until 2:00 P. M., of the 11th day of May, 1914, for the construction of a water works system, consisting of a steel tank and tower, tank 40,000 gallons capacity, tower 100 feet from capstone to bottom of tank, drilled well with ten-inch casing 100 feet deep, pump house and accessories, one

15-horsepower geared base oil engine, pump and accessories, 2,000 feet of 8-inch pipe laid 8 feet deep, 3,000 feet of 6-inch pipe laid 8 feet deep, 600 feet of 4-inch pipe laid 8 feet deep, 12 fire hydrants, check valves, gate valves, etc., all in accordance with plans and specifications therefor prepared by A. T. Thompson, Consulting Engineer, now on file at the office of the Village Clerk.

All bids must be accompanied with a certified check in the sum of 5 per cent of the total bid, made payable to the Treasurer as a guaranty of good faith. Plans and specifications may be seen at the office of the Village Clerk.

No bids will be accepted unless made out on blank forms which may be obtained from the engineer or Village Clerk.

The right to reject any or all bids is reserved and the right to accept any bid is reserved.

O. G. KINNEY, Village President.  
C. A. KINNEY, Village Clerk.

### NOTICE TO CONTRACTORS. MASONIC TEMPLE.

Willmar, Minn.

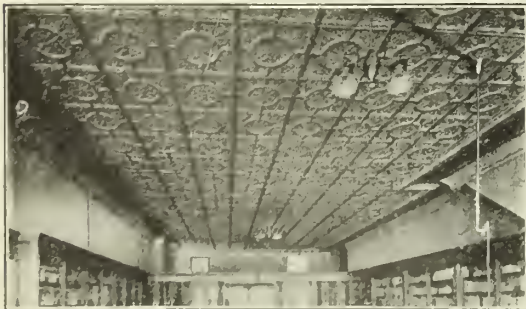
The undersigned hereby gives notice of the sealed proposals for the erection of a Masonic Temple, to be built in Willmar, Minn. Bids are to be opened by the building committee on the eleventh day of May, 1914, at 2:00 P. M. All bids must be in strict accordance with the plans and specifications prepared by J. E. Nason, No. 622 Corn Exchange, Minneapolis, Minn. A certified check of \$300.00, payable to Russell Spicer, must accompany each bid as a guarantee to enter into contract and furnish a satisfactory bond for the faithful performance of the contract.

Plans can be had at the architects, or of Russell Spicer, Willmar.

All bids should be addressed to Russell Spicer, Willmar, Minn. The right is reserved to reject any or all bids.

J. E. NASON.

(Continued on page 21)



SEND US YOUR PLANS  
Our figures cost nothing, and  
YOU WILL SAVE MONEY

## Don't Make a Mistake!

**You Can Buy the Best Sheet Metal Work**

such as Cornices, Steel Ceilings, Skylights,  
Ventilators, Gutters, Ridgings, etc., etc.,

**Right Here at Home—No Wait, No Worry**

**ST. PAUL ROOFING, CORNICE  
and Ornament Co.**  
ST. PAUL, MINN.



**NOTICE TO CONTRACTORS.**

Store, Warren, Minn.

Sealed proposals will be received by the People's Trading Co., Warren, Minn., at their office up to 2 p. m., Thursday, May 14, 1914, for a brick addition to the store building at Warren, Minn. Plans may be obtained at the office of the People's Trading Co., Warren, and at the office of the architect, F. E. Halden, 601-3 Kasota building, Minneapolis. The right is hereby reserved to reject any or all bids.

THE PEOPLE'S TRADING CO.,  
Warren, Minn.

**SCHOOL.**

Nora Springs, Iowa.

Sealed proposals will be received by the Independent School District of Nora Springs, Iowa, up to May 25, 1914, at 6 o'clock p. m., separate bids being desired as follows:

General Construction,  
Heating,  
Plumbing,  
Electrical Work.

Plans and specifications for above may be procured from Architects Alban & Lockhart, 40 Chamber of Commerce Building, St. Paul, Minn., by depositing with them certified check for \$10.00, to insure prompt return of plans and that a bid will be submitted upon them. Checks will be returned to parties complying with these requirements. A certified check or bidders' bond, payable unconditionally to the undersigned, will be required with bids as follows:

General Construction, 3 per cent of bid.  
Heating, 3 per cent of bid.  
Plumbing, \$200.00.  
Electrical Work, 5 per cent of bid.

Checks will be returned to unsuccessful bidders and to accepted bidder as soon as contract and bond are executed.

A Surety Company Bond for full amount of contract will be required of each contractor on building. The owners reserve the right to accept any bid or reject any or all bids.

H. F. SCHNEDLER,  
Secretary Board of Education.

**TREASURY DEPARTMENT,** Supervising Architect's Office, Washington, D. C., May 4, 1914.—Sealed proposals will be received at this office until 3 o'clock p. m., on June 10, 1914, and then opened, for furnishing and installing special lighting fixtures for the new United States postoffice at Minneapolis, Minn., in accordance with the specifications and drawings enumerated therein, copies of which may be obtained at this office, at the discretion of the Supervising Architect. O. WENDEROTH, Supervising Architect.

**READVERTISING OF MACADAMIZING ON STRAWBERRY POINT-OELWEIN ROAD.**

1. Sealed bids will be received at the office of the County Auditor of Clayton County, at Elkader, Iowa, until 4 o'clock p. m., May 15, 1914, for the grading of 1,800 feet and the surfacing of 5,300 feet of road west of Strawberry Point, Iowa. Plans and specifications for which may be seen at the Engineer's Office.

2. A certified check for five per cent (5%) of bid, made payable to County Auditor, shall be filed with each bid, which, in the case of the bidder (or bidders) receiving the award, should he fail to execute a contract and file a bond within ten (10) days after the acceptance of his bid, shall be forfeited to the county as liquidated damages.

3. All bids must be on the regular form furnished by the County, sealed and plainly marked.

4. The successful bidder will be required to furnish a bond for 75 per cent, issued by responsible surety, approved by the Board, and drawn to protect the County and any sub-contractor.

5. The County reserves the right to waive defects and to reject any or all bids.

6. Tenders will be received on the following items:

Approximate Quantities:  
1,300 cubic yards rock excavation.  
200 cubic yards earth excavation.  
1,700 cubic yards earth fill.  
2,300 square yards of 3½-inch top course Macadam.  
7,100 square yards of 7 2-3inch. Macadam, two courses.

The County will supply all machinery, including:

Air compressor, "Jack Hammer" drill, rock crusher complete, six rock-spreader wagons, wheelbarrows, rakes, sprinkler, grader and roller.

The contractor must furnish scrapers and plows and obtain rock for crushing.

**NOTICE TO BIDDERS.**

Reservoir, Waterworks, Perry, Iowa.

Sealed proposals will be received at the office of the City Clerk, Perry, Iowa, until 8 o'clock P. M., May 25, 1914, for the construction of a 500,000-gallon reinforced concrete reservoir at the water works plant.

All bids to be accompanied by a certified check of \$500.00 and must be in accordance with the plans, specifications and proposal blanks, copies of which may be obtained of Adrian Cross, City Clerk, or R. B. Reasoner, Engineer, Perry, Iowa.

**NOTICE FOR BIDS.**

Hayes Grade School, Cedar Rapids, Iowa.

Sealed proposals will be received at the office of the Board of Education, Cedar Rapids, Iowa, until 12 o'clock noon, Thursday, June 4, 1914, for material, labor, construction and completion of the Hayes grade school building at D Street and 20th Avenue West, Cedar Rapids, Iowa, according to plans and specifications made by the Ingold Unit System Company of Cedar Rapids, Iowa. A set of plans may be seen at the office of the American Contractor, Chicago, Ill.

A deposit of \$15.00 is required for each set of plans, same to be refunded when plans and specifications are returned in good condition. Bids made otherwise than on forms furnished by the Architects may be rejected.

Bids to be accompanied by a certified check, payable to Board of Education, Cedar Rapids, Iowa, for two per cent of amount of bid.

The Board reserves the right to reject any or all bids.

May 4, 1914.

J. M. INGOLD,  
Secretary Board of Education.

**NOTICE TO CONTRACTORS.**

Sealed bids will be received at the office of C. W. Kaddatz, Fergus Falls, Minn., up to 12 o'clock noon, of Wednesday, May 20, 1914, for the plumbing, steam heating and vacuum piping to be installed in a new hotel and bakery building now in course of construction at Fergus Falls, Minn.

Plans and specifications may be seen at the Builders' Exchange, Minneapolis, and at Fergus Falls.

Each bid must be accompanied with

a certified check for \$1,000.00, made payable to C. W. Kaddatz, as evidence of good faith to enter into contract if called upon to do so.

The right to reject any or all bids is reserved.

C. W. KADDATZ,  
Owner.  
HANCOCK BROS.,  
Architects.

**NOTICE TO CONTRACTORS.**

Watertown, S. D.

Two School Buildings.

Sealed bids will be received by the Board of Education of the Watertown Independent School District until 8:00 o'clock P. M., May 22, 1914, for the erection of the Grant and Lincoln Buildings. Bids to be received separately on each or both buildings, with the exception of the heating and plumbing, according to the plans and specifications, copies of which are now on file with the clerk of the district, and Builders' Exchange, St. Paul.

Copy will be furnished bidders on deposit of \$10.00, which will be refunded on return of plans in good condition.

Proposals must be made on form accompanying specifications, and accompanied by certified check of three per cent of the amount of bid, payable without reserve to this district.

Right is reserved to reject any or all bids.

Mail all bids plainly marked "Bid" to Maud Elkins, Clerk of the Watertown Independent School District.

Dated April 29, 1914.

**SEWERS, AUSTIN, MINN.**

Until 8 o'clock P. M., May 22, the Common Council of the City of Austin, Minn., will receive bids on the following amounts of sanitary sewers: 4,074 feet 8-inch, 766 feet 12-inch, 1,785 feet of 15-inch and 672 feet of 18-inch pipe together with all the necessary manholes and appurtenances thereto.

The right is reserved to reject any and all bids. A certified check or a deposit of cash equal to five per cent of the amount of the bid must accompany same.

For further information address  
OSCAR F. WEISSGERBER,  
City Engineer.

**COUNTY JAIL.**

Montezuma, Iowa.

The undersigned hereby gives notice that sealed proposals for the erection of County Jail Building, including all labor and material, will be received by Board of Supervisors of Poweshuk County, Iowa, until the hour of 1 P. M., on the second day of June, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by Pauly Jail Building Co., of St. Louis, which may be seen at the office of County Auditor.

A certified check for 5 per cent of bid, payable to the order of County Auditor, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the sum of \$4,000 for the faithful performance of the contract.

The right is reserved to reject any or all bids.

(Signed) W. C. McKee,  
County Auditor.

Montezuma, Iowa,  
April 29, 1914.

(Continued on page 22)



**Employers' Liability Insurance  
Surety and Fidelity Bonds.**

## FRED L. GRAY COMPANY

THE LARGEST AGENCY OF ITS KIND  
IN THE NORTHWEST

More than 50,000 personal  
injury cases handled for  
contractors and others  
since 1892.

Security Bank Bldg..

MINNEAPOLIS

### NOTICE TO CONTRACTORS.

School, Clarissa, Minn.

Sealed proposals will be received by the Independent School District No. 67, Todd County, Clarissa, Minnesota, on or before 3 o'clock P. M., May 20, 1914, for the completion and erection of a new school building; also installation of the heating, plumbing and ventilation in the new school building, according to plans and specifications by Kirby T. Snyder, Architect, Suite 751 Plymouth building Minneapolis, Minnesota.

Plans may be viewed at the office of the clerk and at the office of the Architect. Contractors wishing plans for their exclusive use may obtain the same from the Architect by leaving a deposit of \$25.00 on all plans taken out of the

office, same to be returned when the plans are returned to the Architect.

A certified check of 5 per cent of the bid to accompany each proposal. The board reserves the right to reject any or all bids.

(Signed) L. D. THAYER, Clerk,  
Independent School District No. 67.

### NOTICE—SCHOOL BUILDING.

Oconto Falls, Wis.

Notice is hereby given that sealed proposals for the building of solid brick additions to the High School building in Joint High School District No. 2, Towns of Oconto Falls and Village of Oconto Falls, Wisconsin, including all labor and material, will be received by the School Board of said district up to

## PROPOSALS

the hour of 12 o'clock, noon, on Monday, May 18, 1914.

All bids must be in strict accordance with the plans and specifications prepared by Herman Wildhagen, Architect, of Appleton, Wis., which may be had on application to the Architect or the clerk of the School Board.

The contractors shall figure each branch of the work separately as follows, to wit.: Excavating, concrete and mason work, carpenter work, slate roofing, lath and plastering, painting and glazing, plumbing and steam heating and fitting.

Plans and specifications may also be seen at Builders' Exchange, Milwaukee; Builders' Exchange, Oshkosh, and Builders' Exchange, Minneapolis, Minn.

A certified check for two per cent of the amount of the bid, payable to the order of the School Board must accompany each bid as a guaranty, the same to be returned to the unsuccessful bidders immediately on the letting of the contract.

The party to whom the contract is awarded will be required to give a satisfactory bond for fifty per cent of the amount of the contract for the faithful performance of the contract.

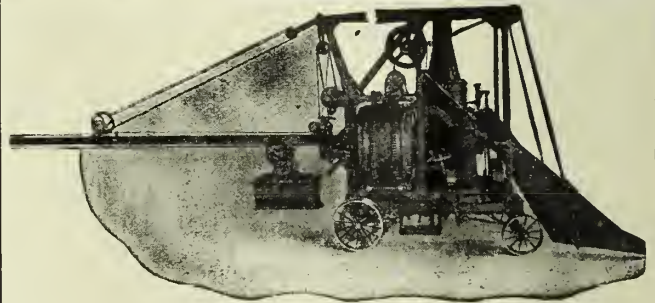
The School Board reserves the right to accept any or reject any or all proposals presented.

T. F. REYNOLDS,  
Clerk Joint High School District No.  
2, Towns of Oconto Falls and  
Stiles and Village of Oconto  
Falls, Wisconsin.

(Continued on page 23)

**Any town:—**City Engineer Wise is preparing plans for concrete road construction. Specifications call for clean sand, good stone or gravel and Atlas Portland Cement.

HAVE YOU PUT IN YOUR BID?



## A road mixer with sterling credentials

A machine such as a road mixer must have more than just claims back of it before you'll invest. It must be backed by recommendations of unquestionable value.

# KOEHRING

See these Machines, four different sizes, now in stock, at our Midway Warehouse.

Phone us for appointment today. N. W. Main 330;

T. S. Annex 300. Get our New Year's Guarantee.

## Koehring Machine Co.

Milwaukee Wisconsin  
N. W. Branch Office, H. B. Jones, Dist. Mgr.,  
349-351 Security Bank Bldg. Minneapolis



**SCHOOL, CLEVELAND, MINN.**

The undersigned hereby gives notice that sealed proposals for the erection of School Building complete, including heating, ventilating and plumbing, including all labor and material, will be received by School Board until the hour of 2 P. M., on the 23d day of May, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by A. E. Green, of 1099 17th Ave. S. E., Minneapolis, which may be seen at the State Bank, Cleveland, on and after May 7, 1914, and may also be seen on application to A. E. Green, 1099 17th Ave. S. E., Minneapolis, Minn.

Building to be completed by October 1, 1914.

A certified check for \$1,000.00, payable to the order of W. C. Davis, Treasurer, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the sum of 75 per cent of contract price, for the faithful performance of the contract.

The right is reserved to reject any or all bids.

(Signed) E. J. KRAMER,  
Secretary Board,  
Consolidated District No 2,  
Le Sueur County, Minn.  
Town Hall, Cleveland, Minn.,

**SEWERS, ZUMBRO FALLS, MINN.**

Notice is hereby given that the Village Council of Village of Zumbro Falls will receive sealed bids for the construction and installation of a system of sewers in said Village in accordance with the ordinance provided for the construction and establishing of said sewers, passed this day. Said bids will be received and opened at a special meeting of the council to be held at the village hall in the Village of Zumbro Falls, on May 21, 1914, at 3 o'clock P. M. A certified check, payable to the order of the treasurer of this village, to the amount of \$150.00, must accompany each bid, and the successful bidder must, within ten days from the notification of the award of the contract to him, execute a suitable contract therefor together with a satisfactory bond for the sum of not less than \$150.00, for the faithful performance of said contract. Failing to do so, said check shall be forfeited.

Plans and specifications of sewer system can be found at Fraser & Danforth's office 411-412 Hackney Building, St. Paul, Minn., or at the Recorder's office, Zumbro Falls, Minn.

The council reserves the right to reject any and all bids.

B. R. THEISEN,  
Village Recorder.

**COURT HOUSE.  
Ashland, Wis.**

The undersigned hereby give notice that sealed proposals for the erection of a Court House Building in the City of Ashland, County of Ashland, and State of Wisconsin, including all labor and material, will be received by us at the office of Theo. R. Yankee, County Clerk of Ashland County, Wisconsin, at his office in the Court House in the City of Ashland, Wisconsin, until the hour of ten o'clock in the forenoon, on the 1st day of June, 1914. Each envelope containing bids shall have plainly written or stamped on the outside, "Proposals for Court House Building." All bids must be in strict accordance with the plans and specifications prepared by H.

W. Buemming and Henry Wildhagen, Associated Architects, which may be seen at the following places, from and after the 11th of May, 1914, to-wit: Building & Traders' Exchange, 4-5-6 Broadway, Milwaukee; H. W. Buemming, 521 Jackson St., Milwaukee, Wis.; Builders' Exchange, St. Paul; Builders' Exchange, Minneapolis, Minn.; Builder's Exchange, Duluth, Minn.; Henry Wildhagen's office, Dufur Block, Ashland, Wis.

A certified check for 5% of the amount of each separate bid, payable to the order of Nellie M. Archibald, County Treasurer of Ashland County, Wisconsin, must accompany each separate bid, as a guarantee, the same to be returned to unsuccessful bidders immediately on letting the contract.

Separate proposals will be received for all or any portion of the work as mentioned in the specifications.

The party to whom the contract is awarded will be required to give a surety bond in the full amount of his bid for the faithful performance of the contract.

Extra sets of plans and specifications may be obtained from the architects upon forwarding them a certified check in the sum of \$20.00, \$17.00 of which will be refunded upon the prompt return of same after the contract is let. The right is reserved to reject any or all bids.

**ASHLAND COUNTY COURT HOUSE  
COM.**

By Carl A. Rudquist, Chairman.  
Ellis Fisher, Secretary.

**NOTICE FOR BIDS.  
For Park Lighting System.  
Virginia, Minn.**

Office of the Secretary,  
April 30th, 1914.

Notice is hereby given that proposals will be received by the undersigned, in his office, in the city hall building, until noon on the twenty-second day of May, 1914, for furnishing a complete lighting system for Olcott Park and South Park, in the city of Virginia, Minnesota, in accordance with the plans and specifications on file in the office of the Secretary of the Department of Parks, in said city.

Bids are to be placed in sealed envelopes, marked "Bids for Park Lighting System."

A certified check, amounting to ten (10) per cent of the amount bid, drawn to the order of Wm. J. Schulze, President, guaranteeing the execution of the contract and bond required within ten days after the bidder has been notified of having been awarded the contract, must accompany all bids.

The aPrk Board Reserves the right to The Park Board reserves the right to By order of the Park Board of the city of Virginia, Minn.

H. J. NATHANSON,  
Secretary.

**CHURCH, EDGELEY, N. D.**

The undersigned hereby gives notice that sealed proposals for the erection of a brick and stone church building, including all labor and material, will be received by Mr. Chas. Gunthorp, Edgeley, N. D., until the hour of 10 A. M., on the 25th day of May, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by Geo. F. Fossum, Architect, of Aberdeen, S. D., which may be seen at the office of the Architect on and after the 5th day of May, 1914, and may also be seen on application to Mr. Chas. Gunthorp, Edgeley, N. D.

Bids on the plumbing and heating will be received the same date under separate contract.

A certified check for 4 per cent, payable to the order of Mr. Chas. Gunthorp, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the full sum of the bid for the faithful performance of the contract.

The right is reserved to reject any or all bids.

(Signed) MR. CHAS. GUNTROP.  
Edgeley, N. D.

**NOTICE TO CONTRACTORS.  
Newton, Iowa.**

The Board of Supervisors of Jasper County, Iowa, will receive sealed proposals for the erection of 3 Concrete Bridges. Plans and specifications now on file in the Auditor's Office of said county and with the State Highway Commission at Ames, Iowa. Certified check for 5 per cent of the bid is required. The Board reserves the right to reject any or all bids. All bids must be filed in the Auditor's Office on or before noon of the 20th day of May, 1914.

H. S. RAYBURN,  
County Auditor.

**NOTICE FOR BIDS.  
Decorating, Etc.**

Tyndall, S. D., Court House.

Separate sealed proposals, for the furnishing and installation of:

1. The Metal Furniture, Fixtures and Equipment;
2. The Wood Furniture, Fixtures and Equipment, and
3. The Interior Decorating

of the Bon Homme County Court House, at Tyndall, S. Dak., directed to C. E. Stoddard, County Auditor, Tyndall, S. Dak., and endorsed "Furniture" or "Decorating," as the case may be, will be received on June 9th, 1914, at 10 o'clock A. M. for the wood furniture and on June 10th, 1914, at 9 o'clock A. M. for the metal furniture and decorating.

Each bid is to be accompanied by a certified check in a sum equal to 5% of the contract price, made payable to C. L. Bohac, Treasurer. The checks of unsuccessful bidders will be returned after the award of contract, while those of the successful bidders will be returned after they have entered into contracts and furnished bonds, all of which shall be entirely satisfactory to W. W. French, State's Attorney.

Plans are on file at the office of C. E. Stoddard, County Auditor, Tyndall, S. Dak., and at the office of Joseph Schwarz, Architect, Sioux Falls, S. Dak.

Parties desiring the loan of a set of plans for their own use, for the purpose of figuring, can obtain them from the architect, upon a deposit of \$10.00, one-half of which will be refunded upon the return of said plans.

The sum set apart for the wood furniture is \$4,000.00 and for the decorating \$2,000.00.

The County Commissioners of Bon Homme County, S. Dak., reserve the right to reject any or all bids.

C. E. STODDARD,  
County Auditor.

**NOTICE TO CONTRACTORS.  
High School, Garner, Iowa.**

Sealed bids will be received for the construction of a high school building at Garner, Iowa, until May 22, 1914. For particulars regarding plans and specifications write J. N. Spole, President, Garner, Iowa.

(Continued on page 24)



LINOFELT should be your first thought this spring in building that new home—or remodeling the old one. We know you want COMFORT above all things. Get it. Use Linofelt. Actual tests show it to be 38 times more efficient than building paper. The difference in initial cost will be made up the second winter in fuel saved; and more, you are sure of what you are after—COMFORT. We make every form of insulation preventing cold or heat from going through walls, floors or roofs. Write for illustrated booklets.

**UNION FIBRE COMPANY, -- WINONA, MINNESOTA**

### PROPOSAL ADVERTISING FOR BIDS

#### NOTICE TO CONTRACTORS. Greene, Iowa.

Sealed bids will be received by the Town Clerk of Greene, Iowa, until 7:30 P. M., May 20, 1914, for the construction of the following sewers, disposal plant and outlet sewer. Certified check of \$200.00 for disposal plant and outlet sewer and \$500.00 for sanitary sewers required.

1720 feet of 10-inch sewer.

680 feet of 8-inch sewer.

5 manholes.

1 flushtank.

4 lampholes.

Disposal plant complete.

400 feet of 12-inch outlet sewer.

LE ROY NILES,

Town Clerk.

M. Tschirgi & Sons,  
Cedar Rapids, Iowa,  
Engineers.

#### ARMORY BUILDING, New Ulm, Minn.

The undersigned hereby gives notice that sealed proposals for the erection of an Armory Building for the Militia organizations at New Ulm, including all labor and material, will be received by the State Armory Board until the hour of 2 P. M., on the 20th day of May, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by Albert Schippel, of Mankato, which may be seen at the office of State Bank of New Ulm, and may also be seen the Builders' Exchange at St. Paul and the Builders' Exchange at St. Paul and Minneapolis.

A certified check for \$500.00, payable to the order of Col. John Buschers, must accompany each bid as a guaranty, the

same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the full amount of contract price for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed)

JOHN BUSCHERS, Col.  
ALBERT SCHIPPEL, Archt.

#### SCHOOL BUILDINGS. Sioux Falls, S. D.

Notice is hereby given that sealed bids will be taken by the undersigned for the material and labor necessary for the erection of a fireproof school building to be known as the Bishop Hare Memorial for All Saints School at Sioux Falls, So. Dak. Proposals will be received by mail not later than ten o'clock, A. M., of May 21, 1914, and should be addressed to Bishop Biller at Sioux Falls, So. Dak.

All bids must be in strict accordance to the plans and specifications as prepared by Robert Perkins, Architect. Plans are on file at the Builders' Exchange at Minneapolis, and copies of same may be procured by addressing Bishop Biller.

Bids will include, Heating, Ventilating, Plumbing and Electric wiring, the contract to be of a general form.

A certified check for 3 per cent payable to Bishop Biller shall accompany each bid as a guarantee, the same to be immediately returned to the unsuccessful bidders upon letting of contract.

The right is reserved to reject any or all bids.

Signed.

BISHOP BILLER,  
Per R. A. P.

#### NOTICE TO ROAD CONTRACTORS.

Elbow Lake, Minn.

Sealed bids will be received at the county auditor's office of Grant county, at Elbow Lake, Minnesota, until 10 o'clock a. m., Friday, May 22d, 1914, for construction of County Jobs 1, 2 and 3 on State Roads 1 and 2, consisting of the following:

Job No. 1: Station 0 to 242, total length, 24,200 feet; 10,088 cubic yards grading; 10,550 lineal feet turnpiking; 4,550 cubic yards graveling.

Job No. 2: Station 248 to 584, total length, 33,436 feet, 3,974 cubic yards grading; 24,236 lineal feet turnpiking.

Job No. 3: Station 722 to 909, total length, 18,700 feet; 6,061 cubic yards grading; 8,700 lineal feet turnpiking.

Plans and specifications may be seen at above named office, or at the office of the Highway Commission at St. Paul, Minn.

Each proposal must be accompanied by cash or certified check for not less than 5 per cent of the amount of the bid, payable to the county treasurer of said county of Grant.

Bid will be accepted for the entire jobs or any part or parts thereof.

All bids must be in accordance with instructions to bidders, and upon blanks furnished by the county auditor or the Highway Commission.

The county board reserves the right to reject any or all bids.

Dated April 25, 1914.

O. E. WOLD,  
County Auditor.

### FREE HELP WANTED ADS.

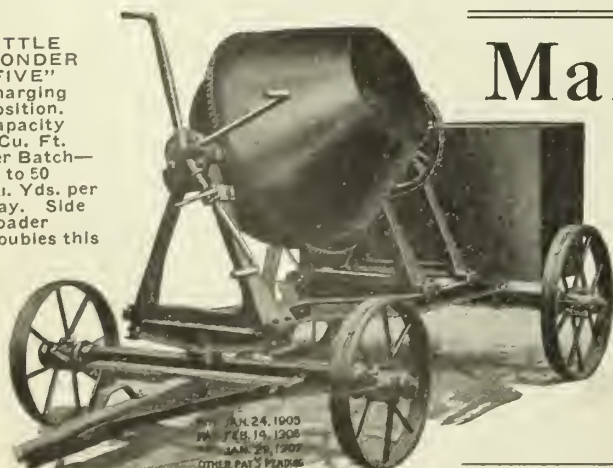
Wanted—By first-class, all-around cement worker, position as foreman where he can work and take charge of small crew.

Box 102, Improvement Bulletin.

(Wanted good brick mason foreman. Ten cents above scale per hour, paid to any man who is a mechanic, rustler, and sober, none other need apply, steady work guaranteed in working season.) Box 60, Bulletin.

(Wanted carpenter foreman. Must be steady, sober and a good mechanic, capable of building residences, fireproof constructions or brick school houses, none others need apply, steady work guaranteed the year around, top wages paid to the right man.) Box 65 Bulletin.

LITTLE  
WONDER  
"FIVE"  
Charging  
Position.  
Capacity  
5 Cu. Ft.  
per Batch—  
35 to 50  
Cu. Yds. per  
Day. Side  
Loader  
Doubles this



## Make These Profits

First—50 cts. per cu. yd. over hand mixing, which pays for the mixer in 12 days. Second—TEN DAYS' FREE TRIAL, which cannot be expressed in dollars, but guarantees satisfaction. Third—Quality that insures durability and saves breakdowns and loss of time—all equivalent to profits.

### WONDER MIXERS

are known nationally and indorsed by thousands of contractors as the only logical choice. You ought to know why before you decide on a mixer—and, remember, you must be satisfied before you buy, or we pay the freight.

**WATERLOO CEMENT MACH'Y CORP'N, Mfrs.**

220 Vinton St., Waterloo, Iowa

**HALE CONCRETE MACHINERY COMPANY, AGENTS,**

1042 McKnight Bldg., Minneapolis, Minn.



and Chambers sts.; brick veneer and stucco, 2-story and basement, 35x30, tile flooring, art glass, furnace heating.

Architect Richard E. Oberst, 353 National av., is taking bids for the erection of a residence at 15th and National avs.; frame, brick foundation, 26x34, 2-story and basement; tile flooring, hot water heating; cost \$6,000. Has awarded on store and flat at 23d av. and Becher st.: Carpenter, Albert Rediske; mason, Wm. Bittner. Additional on Reif bakery at Buffum and Burleigh sts.: Painting, Paul Wagner; bakers' oven, Peterson Oven Co.

Architect John Menge, Jr., Matthews building, has awarded on remodeling meat market for Donner at 3d and Center sts., the mason work to Lex Bros. Will take bids shortly on a store addition for I. Goldmann at 4th av. and Mitchell st.: 2-story and basement, 40x48, solid brick construction; boiler for both old and new structures. Closes bids this week on remodeling porch into garage on Van Buren st., owner's name withheld.

Architect Carl Barkhausen, 121 Wisconsin st., is taking bids this week on remodeling of a business block at E. Water and Chicago sts., for the Yahr & Lange Drug Co.; 6-story and basement, 100x125, tile floors and wainscoting, structural steel, electric dumb waiters, oil tanks, spiral conveyor, steel lockers, remodeling electric elevator; heating and electric work bids later.

Architect E. R. Liebert, Colby-Abbott building, is taking bids this week for the erection of a residence for August Bargenthal on Marietta av., between Linwood av. and Kenwood boul.; 2-story and basement, 40x65, brick veneer, tile flooring, hot water heating, art and plate glass, vacuum cleaning; reinforced concrete garage, 23x34; cost \$25,000.

Architect John Roth, Jr., Locust and 2d sts., is ready for bids on the erection of a 4-family flat, brick veneer construction, 40x48, with furnace heating; closed bids this week on brick veneer residence, 2-story and basement, 28x48, in North Milwaukee; hot water heating, septic tank, private water system; cost \$6,000; noted in last issue.

Architect L. M. Gurda, 920 2d av., closes bids May 18, on the erection of a bungalow on Maryland av. and Morse st., East Milwaukee, for E. W. Schumann; frame and stucco construction, concrete block foundation, 26x34, 1½ stories; hot water heating, asphalt shingles, plate and art glass.

Architects Gray-Clark Co., Merrill building, close bids this week for the erection of an addition to the Albert Heath business building at 21st and Wells sts.; to be bakery in connection with store, reinforced concrete and brick construction, 2-story and basement, 32x32; baker's oven.

Architect A. C. Eschweiler, Goldsmith building, is ready for bids on the erection of a church, parsonage and convent for the St. Thomas Aquinas Catholic congregation at 36th and Brown sts.; stone and brick, elaborate interior finish, steam heating; cost \$75,000.

The Allis-Chalmers Mfg. Co. has been awarded the contract for the equipment of the new hydro-electric plant of the Southern Power Co., at Lookout Shoals, on the Catawba river in North Carolina; equipment will develop 26,000 horsepower and cost \$225,000.

Architect Chas. H. Tharinger, 2324 State st., has awarded additional on F. W. Stark residence in Story Hill: Tile work, J. D. McCusker & Co.; plumbing, W. A. Kak Co. On store and flat for Norde at 48th st. and Pabst av., iron work to C. Hennecke Co.

Architects Christiansen & Kemnitz, 87 Howell av., are taking bids on a residence at Farwell av. and Columbia pl., East Milwaukee, for A. W. Fridell; brick veneer and stucco, 26x36; tile flooring, furnace heating, art and plate glass; cost \$4,500.

Architect H. W. Buemming, 521 Jackson st., will take bids shortly on the erection of a bank building at Horicon, Wis., for the Horicon State Bank; brick, stone, hollow tile and fireproof construction, 2-story and basement, 60x90.

Architect Stanley F. Kadow, 988 Kinnickinnic av., closes bids May 15 for the erection of a residence in Bay View; frame construction, brick foundation, 2-story and basement, 24x30, furnace heating, art and plate glass.

## OMAHA, NEB.

\*Robert C. Strehlow, Omaha, contractor, will build the Abundance Court building, Panama exposition, San Francisco, at \$300,000.

\*A 6-story building to cost \$140,000 is planned by the Omaha Grain Exchange; money being raised.

\*Omaha Furniture Manufacturing Co. is introducing a built-in kitchen cabinet.

## FARGO, N. D.

VICTOR H. LEEBY,  
Builders' and Traders' Exchange.

\*W. D. Gillespie has just returned from a trip through the western part of the state and Montana. At Sidney, Mont., he submitted plans for an 8-room high school building, which were accepted by the board and plans will be ready for the building May 15. This firm was also engaged to prepare plans for a fireproof hospital building to cost \$25,000, plans for which will be ready about the same time. Bids were opened at Spiritwood by Mr. Gillespie, for the erection of a 4-room brick school and contracts were awarded. Following is a list of the bidders on this work: General contract—John Schlanser, Fargo, \$14,094; W. J. Curren, Valley City, N. D., \$12,700; J. H. Leeb, Fargo, \$12,675; Ritterbush & Son, Oakes, N. D., \$12,553; Bowers Bros., Fargo, \$12,481; A. S. Randolph, Detroit, Minn., \$12,418; Harrison Bros., Elbow Lake, Minn., \$12,179; J. P. Clausen, Wimbledon, N. D., \$11,975; J. A. Schroeder, Jamestown, N. D., \$11,795; L. W. Holder, Forman, N. D., (awarded), \$11,004. Heating and ventilating—T. S. Halligan, Jamestown, N. D., \$1,840; H. P. Taylor, Jamestown, N. D., \$1,821; Champlin & Nanson, Fargo, \$1,785; V. E. Beaudry, New Rockford, N. D., \$1,750; McDermott & Greenshields, Fargo, \$1,747; T. P. Riley, Fargo, \$1,696; Hutchinson Hardware Co., LaMoure, N. D., \$1,686; Fargo Plumbing & Heating Co., \$1,668; H. A. Bunker, Oakes, \$1,660; Grambs & Peet, Bismarck, \$1,597; Anton Freed & Son, Spiritwood, N. D., \$1,564; Valley City Plumbing & Heating Co., \$1,563 (awarded).

\*Mr. Haxby returned Saturday evening from Bemidji, where he let contract for the new store building for Gill Bros., of that city, and examined the work already done on the new hotel for Lycan & Co. Following are the bidders on the Gill building: Hoaglund Bros., Minneapolis, \$4,684; Lauritzen & Benson, Bemidji, \$4,548; Gunther & Mehlhorn, Bemidji, \$4,498; Geo. Kreatz, \$3,996 (awarded).

## WINNIPEG, MAN.

Items marked with asterisks not in Daily Sheets.

\*Permits: M. V. Saul, apartment block, Young st., cost \$45,000; R. R. Scott, dwelling, Ruskin road, \$20,000; J. N. Semmens, architect, and J. McDiarmid Co., contractors; F. W. Walker, two dwellings, Oxford st., \$12,000; Bandern & Fraser, dwelling, Elm st., \$7,500; F. Stevens, dwelling, Salter st., \$7,000; Walley Construction Co., dwelling, Lark st., \$7,000, and two dwellings on Fleet st., \$4,000 each; Heintz Investment Co., two dwellings, Inkster av., \$7,000; Purcer Bros., two dwellings, Oak st., \$7,000; L. Frey, dwellings, \$5,400, Martin st.; Winnipeg Builder's, dwelling, Spruce st., \$5,000, and dwelling, Pine st., \$5,000; J. Bergman, two dwellings, Grafied st., \$5,000; S. Anderson, dwelling, Cobourg st., \$3,000; Buffalo Construction Co., two dwellings, corner McKenzie and Anderson, \$3,000, and \$2,500; C. E. R. Smith, dwelling, Bannerman av., \$3,000; Rev. H. Plathman, dwelling, Mountain av., \$3,000; R. L. Pankhurst, dwelling, Morley av., \$2,700; A. Diner, dwelling, Covourg st., \$2,200.

\*Permits: J. Stroller, dwelling, Mulvey av., \$4,000; J. B. Roswick, two dwellings, Pacific av., \$9,200; L. G. Armstrong, Montrose av., \$8,500; J. A. Martin, dwelling, McMillan av., \$6,000; A. Doner, two dwellings, Jubilee av., \$5,600; G. Zaslowsky, two dwellings, Rathgar av., \$4,600; S. Perry, dwelling, Banning st., \$2,900; D. Kuxhouse, dwelling, College av., \$2,300; E. Long, dwelling, Martin av., \$2,200; Edward W. Lowery, apartment block, Machray av., \$60,000; J. A. Patterson is erecting an apartment block, Jessie av., \$20,000; R. McDonald, architect; P. S. Wright, dwelling, Grosvenor av., \$7,500; P. S. Wright will also erect two dwellings, Oxford st., \$16,000; S. Henkel, two dwellings, Sherburn st., \$6,800; other permits issued: J. L. Smith, dwelling, Ashburn st., \$2,800; A. Forest, dwelling, Downing, \$2,500; R. McKenzie, dwelling, Maryland st., \$1,000; Mrs. Morris, dwelling, William av., \$2,500; E. Chemack, dwelling, \$3,000.

\*Permits: J. J. Higgins, dwelling, Nassau st., \$9,000; Previser & Smaler, dwelling, Boyd av., \$3,500; J. W. Parker, two dwellings, Rathgar av., \$6,000; J. Barry, dwelling, Montcalm st., \$3,000; J. Veist, brick dwelling, Parr st., \$2,500; H. Halderson, dwelling, Lipton st., \$3,000; J. Cushnie, dwelling, Strthcona av., \$2,500; H. F. Kelm, dwelling, Banning st., \$2,400; and City & District Land Co., Ltd., dwelling, Scotland st., \$2,200; A. J. Anderson, dwelling, Montrose st., \$5,000; Bitcon & Hay, dwelling, Cathedral av., \$2,400; S. Druckman, five dwellings, Mulvey av., \$12,500; M. Segal & Son, four dwellings, Winnipeg av., \$6,400; R. W. Knappe, dwelling, Winnipeg av., \$3,800; G. James, dwelling, Maplewood av., \$3,200;



# AMERICAN BRIDGE COMPANY

## OF NEW YORK

**B**UILDERS of steel structures of all kinds, including mining and manufacturing buildings, power plants, towers and tanks, bridges and viaducts, turntables for locomotives and automobiles, roofs, trusses, girders and steel frames for business buildings.

Stock carried at Minneapolis includes a large supply of structural steel, consisting of beams, channels, angles and plates. Orders requiring quick delivery can be filled promptly.

Estimates will be gladly furnished and all inquiries will receive careful attention.

Office and Works 7th Ave. and 2nd St. S. E., Minneapolis, Minn. Duluth Office  
Wolvin Bldg.

## The Youngstown Iron & Steel Co.

### YOUNGSTOWN, OHIO

MANUFACTURERS OF  
Expanded Metal for Concrete Reinforcement  
Expanded Metal Lath for Plastering Purposes  
Metal Studding, Furring Strips, Etc.  
for Use with Expanded Metal Lath.  
"Mahoning" Brand Expanded Metal  
In Gauges No. 7 to 12 Inclusive.  
"Youngstown" Brand Expanded Metal  
In Gauges Nos. 7 to 20 Inclusive.  
SEND FOR CATALOGUE

**Landers-Morrison-Christenson Co.**  
Agents for Minnesota and North and South Dakota  
Lumber Exchange Building, Minneapolis, Minn.

## The Fort Garry Hotel

### WINNIPEG CANADA



3,000 Tons of Steel Furnished and Erected by

**Minneapolis Steel & Machinery Co.** Minneapolis  
Minnesota

## Davenport Machine & Foundry Co.

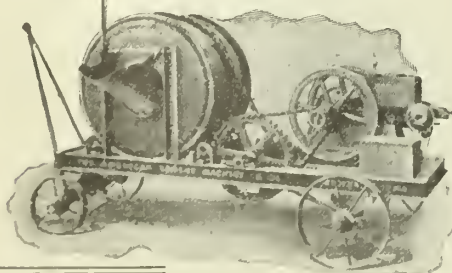
### 1618-44 West Fourth St. Davenport, Iowa

# STRUCTURAL

**Steel and Cast Iron** Steel and Cast Columns, Steel Girders, Roof Trusses, Stairways and Fire Escapes. Beam Channels and Angles

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Handy to get around with. Mixes 60 yds. of concrete a day.

Five foot capacity BOSS mixer on steel truck with 3 h. p. gasoline engine

\$198.00

BOSS mixer, fitted with side loader and hoisting drum, \$288.00  
I also sell Austin cube mixers, Coltrin mixers, gasoline engines & cement block machines  
**NELS ERICKSON** 405 BOSTON BLOCK  
Minneapolis, - Minn.

**Sand - Lime  
Common Brick  
Face Brick**

**Partition  
TILE  
Packing**

**BELT LINE BRICK COMPANY** 512 ANDRUS BUILDING  
MINNEAPOLIS, - MINN.

**Ricketson's  
MINERAL COLORS**

Made Famous

the Slogan:

For Mortar, Brick,  
Cement, Stone, Etc.,  
Red Brown, Buff,  
Purple and Black.

Ricketson's Mineral Paint Works, Milwaukee, Wis.





S. Ostry, dwelling, Redwood av., \$3,000; E. J. Boll, dwelling, Lipton st., \$3,000; W. Gill, dwelling, Powers st., \$2,500.

\*Permits in Assiniboia, St. James: J. S. Barker, two cottages, \$2,000; City & District Land Co., Ltd., dwelling, \$2,500; Mrs. A. E. Bollingbroke, dwelling, \$2,400; V. C. Maddock, repairs, \$3,800; J. W. Ferguson, four cottages, \$4,000; R. Smith, dwelling, \$2,000; W. D. Davison, camp, South Portage, \$2,500; J. R. Williams & Co., two dwellings, \$3,600; Smith & Brown, two cottages, \$2,000.

\*Four dwellings for working men will be erected at Point Du Bois power plant at cost of \$3,500 each, and a roundhouse for the new locomotive, for \$4,000, on recommendation of Manager Glassco of the light and power department.

\*Tenders are wanted to May 3, by Frank Ness, clerk, municipality of Assiniboia, Kirkfield Park postoffice, Man., for supplying and installing of pumping machinery at pumping station, St. James.

\*Selkirk town council awarded contract for sidewalk extensions to the Schruth Co. of Winnipeg, for \$29,332.40, and contract for sewer and water extensions to the Selkirk Developing Co.

\*Tenders are wanted to May 25, by Thos. Little, clerk, municipality of West Kildonan, 215 Chamber of Commerce, Winnipeg, for construction of a trunk sewer for West Kildonan.

\*Tenders are wanted to May 6, by Thos. Little, clerk, rural municipality of West Kildonan, 215 Chamber of Commerce, Winnipeg, for construction of pavement in West Kildonan.

\*Tenders are wanted to May 7, by Geo. F. Richards, secretary board of police commissioners, for erection of fifty steel lockers in the Central police station.

\*Tenders are wanted to May 23, by W. H. Montague, minister of public works, Winnipeg, for boilers and automatic stokers.

\*Ross Bros., contractors, are erecting six cottages at Matlock. Wing will be added to St. Joseph's academy.

\*Tenders wanted to May 11, by chairman board of control, for supply of five dump wagons.

\*Preston S. Wright, local builder, will build two modern dwellings, River Heights.

\*St. Andrew's church will establish a church in River Heights.

\*The Grey nuns intend to erect a large home for old men.

## DES MOINES, IOWA

Bert N. Mills, representative, 310 Hubbell Building.

*Items marked with asterisks not in Daily Sheets.*

\*Contracts for paving and curbing have been awarded by Des Moines council: concrete paving on Valley road to Wagner Co., \$1.25 a yard; W. 22d, W. 23d, and E. 13th asphalt paving to Bryant Asphalt Co., \$1.93 a yard; W. 23d curbing to J. L. Hansman, 33½¢; E. 13th curbing to G. Marcina, 33¢.

\*Des Moines Chamber of Commerce is investigating a proposition for the erection here of a special building for housing small manufacturers; a building on trackage, fire-proof, with plenty of glass exposure, and with powerful electric installations is proposed; Geis Botsford, secretary.

Plans for convent and parochial school for St. Ambrose cathedral call for 3-story, press brick, terra cotta; cost \$50,000; convent 22 feet on 6th av.; school, 116 feet on High st.; work is to start within 6 weeks; Rt. Rev. Monsignor Flavin, pastor, cathedral.

\*J. E. Lovejoy of Des Moines was awarded the contract for the construction of a paddock, 60x138 at the state fair grounds, at \$8,069; brick, four feet high and wire netting to the roof; stalls for 25 horses; work to start at once.

\*Watrous Manufacturing Co., of Des Moines, announces that it will build a 6-story warehouse in Chicago, to carry out a plan of business expansion which includes the purchase of the Acme Steel Goods Manufacturing Co., of Chicago.

\*Wm. Painter Co., of Minneapolis, is negotiating for a site in the packing house district for a hog cholera serum plant; Dr. J. A. Stott of Mason City, Iowa, is building a serum plant.

\*The Des Moines Packing Co. announces that it will spend \$25,000 on improvements at local plant; entire plant will be modernized, building remodeled; J. T. Agar, manager.

\*Judge Thomas L. Maxwell, dissolved injunction to restrain the Farmers' & Merchants' Bank of Lenox from building a new bank; work now will proceed.

\*The Iten Biscuit Co., Omaha, Clinton and Oklahoma City, has closed a contract with F. M. Hubbell, Sons & Co., for a local branch, W. 13th and Walnut.

\*It is reported here that the Heinz Pickle Co., of Pittsburgh, (fifty-seven varieties) is negotiating for a site for local plant.

## STREET AND ROAD WORK

*Notes arranged alphabetically by States.*

*Items marked with asterisks not in Daily Sheets.*

Iowa, Avoca—Hearing held May 5, on two reinforced concrete box culverts costing about \$1,300; J. D. Hannan, county auditor.

Iowa, Cedar Rapids—Ordinance passed for paving B av., about 8,100 square yards concrete; L. Storey, city clerk.

Iowa, Cedar Rapids—Resolution likely to be soon introduced for re-paving entire down town district; address city clerk.

\*Iowa., Cresco—Hearing June 5 on improving 2d av. SW., etc., concrete curbing, with steel reinforcements, in curved portions. M. J. McArthur, city clerk.

\*Iowa, Des Moines—Hearing May 27 on paving Parnell av. with sheet asphalt. Horace Susong, city clerk.

Iowa, Des Moines—Council ordered paving on 1st st. south from Walnut to the river and west on Elm to 2d; Horace Susong, city clerk.

Iowa, Des Moines—Hearing May 20 on curbing E. 14th st. and on Walker st., also on 1st st., and paving on 1st st. with sheet asphalt; Horace Susong, city clerk.

Iowa, Indianola—Hearing May 26 on grading, curbing and paving with Portland cement concrete on 1st st., etc.; W. A. Graves, city clerk; A. H. Gilliland, civil engineer, in charge.

Iowa, Manning—Plans in progress for paving 20,000 to 40,000 square yards; T. J. Jones, city clerk; P. E. Edquist, engineer, Omaha National Bank building, Omaha.

Iowa, Marion—Hearing May 15 on vitrified brick paving on 5th av., 7th and 9th sts.; C. E. Gordon, mayor.

\*Iowa, Marshalltown—Hearing June 1 on paving of North 2d st.; city clerk.

Iowa, Muscatine—Permanent walks to be laid on N. Mulberry av.; address city clerk.

Iowa, Sheldon—Hearing May 11, on paving 5th av., and 9th st.; Sioux Martin, city clerk.

Iowa, Sioux City—Hearing May 16, on alley paving in certain blocks; Paul J. Wells, city clerk.

Iowa, Sioux City—City will soon advertise for bids on paving Garretson av. with concrete; Paul J. Wells, city clerk.

Iowa, Vinton—Paving of alleys has been ordered for business section; address city clerk.

Man., Winnipeg—Committee of city council ordered paving of south side of Portage av. with asphalt; cost about \$70,000.

Minn., Duluth—Gollinger & Mackey were low on the grading and grading of the Kenwood road, their bid being \$6,017, as compared with the engineer's estimate of \$7,238.

Minn., Two Harbors—City council decided to pave 7th av., reinforced concrete to be used, cost about \$10,000. Council will also purchase a 6-ton Kissel auto truck at \$4,750. Address city clerk.

Mont., Forsyth—Council ordered 30 blocks concrete sidewalks; address city clerk.

Mont., Great Falls—Hearing May 18, on paving, grading, draining and improving Central av., estimated to cost \$30,500; W. H. Harrison, city clerk.

Mont., Lewistown—Low bidder for paving one block on Main st., and several blocks on 1st av. was J. C. McGuire, on Main st., \$6,833 for bitulithic and \$9,500 for wood blocks, and on 1st av., \$32,880 for bitulithic and \$44,636 for wood blocks; property owners will decide which they want.

Neb., Aurora—Contemplate 8 to 10 blocks paving, asphalt in center, brick at sides; J. F. Cole, city clerk.

Neb., Beatrice—Special election May 21, to vote on bonds in sum of \$38,000, for paving; H. M. Garrett, city clerk.

Neb., Columbus—Preliminary plans in progress for about 30,000 square yards paving, probably brick; election soon to vote on bonds; Wm. Becker, city clerk.

Neb., York—Bonds for paving and drainage in the sum of \$55,000 have been voted; address city clerk.

S. D., Bridgewater—Council ordered between 20 and 25 blocks cement walks; address city clerk.

\*S. D., Brookings—City will extend several blocks of heating mains. G. H. Stoddart, city auditor.

S. D., Yankton—Election May 20 on \$20,000 bond issue for paving street and alley intersections on 3d st.; address city clerk.

Wis., Janesville—P. J. Goodman, superintendent of streets, considering purchase of 8 h.p. gasoline cement mixer.

Wis., Monroe—Majority of the frontage owners want paving of Milwaukee depot st. to be of creosoted blocks; T. W. Quinn, Madison, Wis., has contract.

Wis., Superior—Committee reports that if demonstration proves satisfactory, county should expend several thousand



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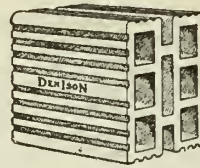
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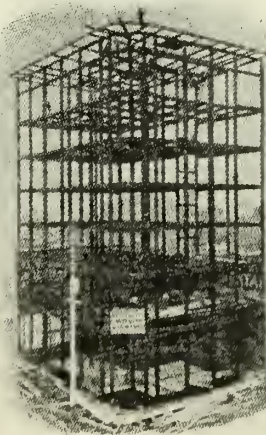
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dollars for road machinery; time will be set for machinery men to demonstrate; W. J. Leader, county clerk. Date set for May 11.

**BIDS WANTED.**

**Iowa, Dubuque**—Bids received by J. J. Shea, city recorder, until 8 p. m., May 14, for improving Cox st., requiring, 822 square yards macadam, 921 lineal feet of 2-foot curb and gutter, 1,620 cubic yards filling and 50 cubic yards cutting; check \$130; also, at same time, for improving alley requiring 2,294 square yards brick paving on concrete foundation; check \$510; also at same time, improving alley, requiring 662 square yards brick block paving outside of tracks and 202 square yards inside and adjoining tracks; check \$200; also, at same time, improving alley, requiring 1,164 square yards brick block paving; check \$260. Also at same time, improving State st., requiring, 3,652 square yards macadam, 2,295 lineal feet 2-foot cement curb and gutter, 2,960 cubic yards cutting, 1,550 cubic yards filling; check \$475.

**Iowa, Elkader**—Bids received by John Adam, auditor, until 4 p. m., May 15, for grading and surfacing. Check for 5 per cent. Officially advertised in this issue of the Improvement Bulletin.

**Iowa, Le Mars**—Bids will soon be called for a second time on about 13,000 square yards paving, asphalt or concrete; E. S. Townsend, city clerk; K. C. Gaynor, engineer, United Bank building, Sioux City.

**\*Minn., Buhl**—Bids received by Harry C. Miller, clerk of the town of Great Scott, until 8 p. m., May 23, for sale of bonds for building, grading and surfacing roads, \$50,000.

**Minn., Crookston**—Bids received by H. J. Welte, county auditor, until 2 p. m., May 26, for 10,000 feet road work, approximately 15,555 cubic yards material; check 5 per cent.

**Minn., Crookston**—Bids received by H. J. Welte, county auditor, until 2 p. m., May 25, for reinforced culverts, one 5x10x24, one 4x8x24, one 6x8x24, one 4x6x40, one 8x10x40, one 4x6x24; check for 5 per cent.

**Minn., Duluth**—Bids received by O. Halden, county auditor, until 2 p. m., May 15, for 2½ miles of the Bodas road and 1½ miles of the Cotton extension road.

**Minn., Glencoe**—Bids received by W. D. Jensen, chairman supervisors town of Glencoe, until 2 p. m., May 16, for two short grades, about 60 rods in all.

**Minn., Grand Rapids**—Bids are reported to have been ordered advertised for by M. A. Spang, county auditor, until May 26, for road work on highway connecting with Buck Lake road, to cost about \$30,000; plans at county surveyor's office or with county commissioner Shallman at Nashwauk.

**Minn., Keewatin**—Bids received by W. A. King, clerk, until 8 p. m., May 13, for grading Keewatin school grounds, about 3,000 yards dirt; check 5 per cent.

**Minn., Luverne**—Bids received by John Kelley, county auditor, until 2 p. m., May 20, grading and improving state roads, approximately, 4,076 cubic yards embankment, 3,471 cubic yards excavation, 6,788 lineal feet turnpiking, 2,697 cubic yards graveling and 15 concrete culverts; check 5 per cent.

**Minn., Pine City**—Bids received by W. H. Hamlin, county auditor, until 1 p. m., May 25, county job No. 5, being 26,345 feet in length, and comprising 19.74 acres clearing, 21.74 acres grubbing, 11,849.6 cubic yards grading, 14,405 lineal feet turnpiking and 124 cubic yards ditching, estimated to cost \$4,974; check 5 per cent.

**Minn., St. Cloud**—City clerk instructed to advertise for bids for the Scenic road from St. Cloud to Sauk Rapids; address city clerk.

**Minn., St. James**—New bids received by J. C. Jensen, county auditor, until June 1, for state road in Butterfield township; no bids received April 28.

**Minn., St. Paul**—Bids received by Leonard C. Seamer, clerk board public works, until 2 p. m., May 14, for curbing on St. Anthony av., also, at same time, for grading of Wakefield av.; also, at same time for curbing, filling, leveling and improving of Arundel st.; also, at same time, for curbing on Fairview av.; also, at same time, for curbing on Baldwin st.; also, at same time, for the curbing on Cambridge av.; also same time, for curbing on Fry st.; also, at same time for curbing on Roblyn av.; check in each case for 10 per cent.

**\*Minn., St. Paul**—Bids received by Oscar Claussen, commissioner of public works, until noon, May 14, for material for paving Dale st., requiring 20,200 square yards of creosoted long leaf yellow pine paving blocks, 7,300 square yards of vitrified brick paving blocks, 1,096 square yards of Kettle River sandstone paving blocks, 4,000 cubic yards of crushed stone or gravel, 2,000 cubic yards of concrete sand, 1,300 cubic yards of cushion or screened sand, 5,770 barrels of Portland cement, 141,000 pounds of pitch filler for wood block, 90,000 pounds of asphalt filler for brick; also, at same time, the asphalt needed for resurfacing Market st., Portland av. and Holly av., about 400 tons. Check for 10 per cent.

**Minn., St. Peter**—City clerk instructed to advertise for

grading road to Green Hill cemetery;; address city clerk; bids to be opened May 25.

**Minn., Thief River Falls**—Bids received by A. H. Fasel, county auditor, until 2 p. m., May 28, for county job No. 1, about 35,000 feet, requiring 1,377 cubic yards grading, 26,000 lineal feet turnpiking, 5,322 cubic yards graveling; estimated to cost \$6,456; check 5 per cent; also until 3 p. m., same date for county job No. 2, 10,600 feet, requiring 3½ acres clearing, 3½ acres grubbing, 10,585 yards grading; estimated to cost \$1,825; check 5 per cent.

**Neb., Falls City**—Bids received by Geo. Riechers, city clerk, until 2:30 p. m., May 14, paving in districts 8, 9, 10, 11 and 12, estimated to cost about \$47,000; check for \$500 on each district; incorrectly located in Minnesota, in last week's issue.

**Neb., Nebraska City**—City clerk instructed to advertise for bids for paving 10th st.

**N. D., Bismarck**—Bids received by R. H. Thistlethwaite, city auditor, until 8 p. m., May 18, for grading on boulevard.

**N. D., Steele**—Bids received by J. C. McWhinney, auditor Kidder county, until 2 p. m., May 15, for general road and highway work; check 5 per cent.

**Sask., Regina**—Bids received by city commissioners until June 1, for paving.

**S. D., McLaughlin**—Bids received by Ralph E. Smith, county auditor, until 2 p. m., May 12, for grading on Yellowstone trail; check \$200.

**Wis., Green Bay**—Bids received by A. Brauns, city engineer, until May 2, for improvements on Guesner st., W. Mason st., and Ridge road, about 11,000 lineal feet gravel, 8-inch thick, 2-course rolled.

**Wis., Green Bay**—Bids advertised for by A. Brauns, city engineer, about May 25, for improving Howard st., about 400 cubic yards grading, 1,278 square yards macadam, and 767 lineal feet curb and gutter.

**Wis., Hawkins**—Bids ordered to be advertised for on the Woodward road; C. L. Hotz, chairman.

**Wis., Hurley**—Bids received by Wm. Weber, highway commissioner, Saxon, Wis., until 4 p. m., May 16, for stumping, brushing, grubbing, ditching and grading of 1 or 2 miles of county highway.

**Wis., Lancaster**—Bids received by Henry Mink, county highway commissioner, until 10 a. m., May 6, for grading, surfacing and two concrete culverts in town of Liberty; check \$100.

**Wis., Milwaukee**—Bids have been called for on 5½ miles of street improvement work, amounting to about \$250,000; address city clerk.

**CONTRACTS AWARDED.**

**Iowa, Cedar Rapids**—Contract with J. B. Ford, 221 1st av. W., for 75,000 square yards sidewalks.

**Iowa, Chariton**—Contract for division B, for paving from plans by Iowa Engineering Co., was awarded to H. J. Cathroe, Omaha, Neb., at \$11,855, instead of to the J. W. Turner Improvement Co., as incorrectly announced last week.

**Iowa, Des Moines**—Contract to the Wagner Co. for paving valley road with concrete at \$1.25 per square yard; to Bryant Asphalt Paving Co., for paving E. 13th and W. 22d and 23d sts., at \$1.93 per square yard; to J. L. Hansman for curbing on 23d st. at 33½¢ a foot; to G. Marcina for curbing on E. 13th st. at 33¢.

**\*Iowa, Forest City**—Contract with Wesley & Sons, Sheffield, Ill., for 46,000 cubic yards grading at 21.9 cents per yard. Other bidders were: Northwestern Construction Co., Minneapolis, \$17,000; Lamoreaux Bros. Co., Omaha, Neb., 22 cents per yard; Bratrud & Cady, Lake Mills, Iowa, 23.5; Fisk & Buckley, Lake Mills, Iowa, 25.5; Joyce Bros & Bagwell, 29.5. C. K. Nelson, county auditor.

**Iowa, Grinnell**—Contract with John Spencer for sidewalks and sidewalk grading at 11c a square foot.

**Iowa, Oskaloosa**—Contract awarded by city council for 14,058 square yards paving, 6,000 lineal feet Portland cement combined curb and gutter, on High 1st and Rock Island avs. to Burlington Construction Co., Burlington.

**Iowa, Sioux City**—Contract with Jensen & Krage, 623 Cecilia av. for one block concrete paving.

**Iowa, Tama**—Contract with Thos. Carey & Sons, Clinton, Iowa, for paving at \$32,540, details being as follows: 4,400 yards excavation, at 40c, \$1,760; 800 lineal feet 9-inch tile pipe sewer, at 40c, \$320; 800 lineal feet 12-inch tile pipe sewer, at 50c, \$400; 21 inlets, at \$8, \$168; 4 manholes, complete, at \$28, \$112; 13 catch basins, at \$35, \$455; 4,800 lineal feet concrete curb including concrete crosswalk headers and cast iron cross-walk plates, at 40c per lineal foot, \$1,920; 14,500 square yards of vitrified brick paving on 5 inches concrete and 2 inches sand cushion, joints grout filled, at \$1.89 per square yard, \$27,405; total, \$32,540.

**Minn., Akeley**—Contract for constructing the Nevis-Park Rapids No. 5 road has been let to James Wilkins, city, at \$15,500.



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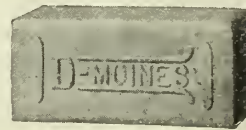
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**Minn., Borup**—Contract to Geo. Peppel, city, for 2½ miles road, ditches, etc., at \$470; other bidders were: A. J. Borgen, Perley, \$700; Gultik A. Hagen, Ada, \$625; A. O. Monson, Moorhead, \$1,408.

**Minn., Buffalo**—Contract for work on grading state road No. 6 let to Ed. Eckstrom at \$4,410.

**Minn., Caledonia**—Contract with Timothy McCarthy and Matt Stegen for constructing state road No. 1, on section just beyond city, \$2,698 for grading and \$1,100 for bridge.

**Minn., Duluth**—Contract with the Butler-Coons Co., Hibbing, for all streets and alleys, concrete, approximately \$75,000.

**Minn., Farmington**—Contract with Jos. Fink for two sections of state road near this place.

**\*Minn., Graceville**—Contract to Martin Larkin for road work on jobs 6, 11 and 12, the east and west highway work.

**Minn., Grand Rapids**—Contract to A. McWilliams, Nashua, for Hill City-Grand Rapids road, at \$19,806. Other bidders were G. Arscott, Grand Rapids, \$20,296; Peterson & Persinger, Cloquet, \$20,707. Estimate of engineer was \$18,500; O. J. Lidberg, engineer.

**Minn., Grand Rapids**—Contract to A. Mitchell, Bovey, Minn. \$29,600 for Tacorrite road and Louis Leimer, Cloquet, Minn. at \$32,020, for Duluth st.

**Mont., Roundup**—Contracts for road construction have been let to Wm. Tillman & Co., for the construction of the Tillman road at Musselshell; Botcher & Copp for the construction of the road from Franklin to Barber; J. E. Edmonds for the county road north of Roundup.

**Neb., Lincoln**—Contract with the Burke-Cochrane Construction Co. for paving 25th st., A to D, and the repaving of 11th st., Q to R; and to Abel & Roberts Construction Co. for paving Vine st., 27th to 23d.

**Sask., Moose Jaw**—Contract to Moose Jaw Construction Co. for cement walks, curbs and gutters, for \$117,458.

**S. D., Sioux Falls**—Contract for curbing on Phillips av. let to Fanebust Bros. at 27c; other bidders were: J. A. Ward, 29.9; Odney Bros. & Stadum, 30.5; Myrmo Bros. 27c.

**Wash., Montesano**—Contract with Pugh & Arenz, Monroe, for 5 miles roadway at \$18,150 a 7-foot concrete roadway on one side of graded and graveled road; a similar strip will be put down on the other side at some future time.

**Wis., Appleton**—Contract to four contractors, R. Schultz, Lillge Bros., L. Waltman and A. C. Simpson on sidewalks at 13c on 5 foot walks and 14c on 6-foot walks; Campbell & Morgan bid 14 and 15c.

**Wis., Chippewa Falls**—Contract with Erick Larson, Cadott, for 4,500 yards grading, etc., at \$1,603; P. O. Lokrantz, county commissioner.

**Wis., Janesville**—Contract with Gund, Graham & Co., Freeport, Ill., for road work, grading, etc.

**Wis., La Crosse**—Contract with L. M. Goddard & Co. for sidewalks, at 7¼c per square foot.

**Wis., Oshkosh**—Contract with J. Rasmussen & Sons Co., city for paving E. Oak st. with bituminous concrete No. 2.

**Wis., Rice Lake**—Contract with E. A. Dahl, Duluth, for paving four blocks on Main st. with creosoted blocks at \$31,841.

**Wis., Rice Lake**—Contract with E. A. Dahl, Duluth, for paving four blocks with creosote blocks.

**Wis., Superior**—Contract to Fielding & Shepley, St. Paul, Minn., for grading and paving Tower av. with sheet asphalt at \$76,611; other bidders were White Construction Co., Milwaukee, \$78,943; E. P. Coughlin, Milwaukee, \$77,483.

ing on plans for sewer district No. 2, probable cost \$10,000; address city clerk.

**Iowa, Creston**—Hearing May 18, on 6, 8, 10 and 12-inch sewer in 29 sanitary sewer districts; J. F. Golden, city clerk. The job will include 1,160 lineal feet 12-inch pipe, 2,890 feet 10-inch and 12,930 6-inch; probably not mature before July 1; Thos. S. DeLay, city engineer.

**Iowa, Des Moines**—Hearing May 27 on a 10-inch sanitary sewer of vitrified clay pipe in W. 44th st.; Horace Susong, city clerk.

**Iowa, Guthrie Center**—Plans are in progress for sewer work to cost \$37,000; address city clerk; Bruce & Standeven, engineers, Bee building, Omaha, Neb.

**Iowa, Leon**—All bids for sewer work rejected; S. G. Mitchell, clerk, Hall & Adams, engineers, Centerville, Iowa.

**Iowa, Mason City**—F. P. Wilson, city engineer, preparing plans for intercepting pine and disposal plant; J. H. McEwen, city clerk.

**Iowa, Sioux City**—Preliminary proceedings for sanitary sewer in Omaha st.; Paul J. Wells, city clerk.

**Minn., Duluth**—Commissioner Murchison will recommend sewer in 8th alley, cost about \$1,999.

**Minn., Wadena**—Movement started to secure sewer system and municipal heating plant; Henry Wolff, St. Paul, looking over the situation, and an outline of the proposed system to be prepared by L. P. Wolff, consulting engineer.

**Neb., Bridgeport**—Election considered to vote bonds in sum of \$12,000 for sewer system; Mark Spanoghr, president, Commercial club.

**Neb., Ravenna**—Election May 12, on bonds for \$22,000 for sewer system; A. B. Cass, city clerk; Grant & Fulton, engineer, Security Mutual Bank building, Lincoln, Neb.

**Wash., Spokane**—Plans prepared by city engineer for sewers, to cost about \$165,000, to include 323 feet 23-inch reinforced concrete pipe; 456 feet 39-inch, 400 feet 42-inch; 750 feet 45-inch; 230 feet 48-inch; 480 feet 54-inch; 1,344 feet 66-inch, and 1,086 feet 78-inch.

**Wis., Ashland**—Board public works decided to put in about 8,000 feet sewer in that part of Ashland known as Bay City, probably 8-inch and cost about \$10,000.

**Wis., Merrill**—Proposition carried for \$21,000 bond issue for main sewer; address city clerk.

#### BIDS WANTED.

**Ill., Moline**—Bids received by Martin R. Carlson, president, board local improvements, until 10 a. m., May 12, for sewer and water mains; sewer work estimated to cost \$111,214, water mains, etc., estimated to cost \$102,556; check 10 per cent.

**Ill., Sparta**—Bids received at once by J. Swain, city clerk, for sewer system and water works to cost \$60,000.

**Iowa, Dubuque**—Bids received by J. J. Shea, city recorder, until 8 p. m., May 14, for an 8-inch tile pipe sanitary sewer in Malady st., about 880 lineal feet and 4 manholes; check \$90. Also, at same time, for an 8-inch tile pipe sanitary sewer in W. 8th st., about 300 lineal feet and 2 manholes; check \$35. Also, at same time, for an 8-inch tile pipe in Cardiff st., about 480 lineal feet and 3 manholes; check \$50.

**\*Minn., Zumbro Falls**—Bids received by B. R. Theisen, village recorder until 3 p. m., May 21, for a system of sewers. Check for \$150. Officially advertised in this issue of the Improvement Bulletin.

**Neb., Atkinson**—Bids received by D. L. Jonvenot, city attorney, until May 18, for sewer estimated to cost \$15,000; Bruce & Standeven, engineers, Bee building, Omaha.

**Neb., Norfolk**—Bids taken by P. Stafford, city clerk, about June 25, for storm sewer, estimated to cost about \$2,000; 18-inch vitrified pipe.

**Neb., York**—Bids soon advertised for by A. B. Chatterton, city clerk, for storm sewer to cost \$30,000; Adna Dobson, consulting engineer, Lincoln, Neb.; reinforced concrete, 1,000 feet 7x9 mains and 1,000 feet 4-foot laterals.

**Sask., Regina**—Bids received by city commissioners until May 25, for storm and sanitary sewers.

**Wis., Oshkosh**—City clerk instructed to advertise for sewers in various streets; Dan Witzel, city clerk.

**Wis., Rhinelander**—Bids received by Gust Swedberg, city clerk, until 2 p. m., May 16, for an 8-inch sewer on E. Fredrick st.; also 4 and 6-inch water mains; check 5 per cent.

**Wis., Sparta**—Bids received by A. W. Smith, chairman committee on sewers, until 2 p. m., May 9, for sewers in 2d and 3d districts, 8 and 10-inch pipe; check 5 per cent.

#### CONTRACTS AWARDED.

**Iowa, Cedar Rapids**—Contract with Percy P. Smith for sanitary sewers in Daniels park district at \$4,122; 2,220 feet 8-inch pipe and 2,108 feet 6-inch.

**Iowa, Des Moines**—Contract to J. W. Turner Co., for Polk boulevard sewer at \$1.67½ per foot; to J. L. Hausman for Vine st. sewer at \$1.29 and to O. P. Herrick, for the 2d and Clark st sewers at 97c.

## SEWERS

*Notes arranged alphabetically by States.*

*Items marked with asterisks not in Daily Sheets.*

**Alta., Calgary**—Sewer connections and extensions to cost \$100,000 will be voted on May 14; water works extensions at same time, to cost \$250,000.

**Alta., Ogden**—Work to begin at once on sewage disposal plant, to cost \$65,000.

**Ida., Bonners Ferry**—Council considering bond issue for sewer system; address city clerk.

**Iowa, Atlantic**—Preliminary plans in progress for 1,500 feet 8-inch sanitary sewer of vitrified pipe; Edward Nichols, city clerk; J. H. Mayne, engineer, Merriam block, Council Bluffs, Iowa.

**Iowa, Burlington**—Hearing May 14, on combination storm and sanitary sewer in various streets, 8, 10 and 12-inch pipe; Robt. Kroppach, city clerk.

**Iowa, Clarinda**—Council voted for sewer in Tarkio st., two blocks; address city clerk.

**Iowa, Council Bluffs**—E. F. Stimson, city engineer, is work-



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**Iowa, Sioux City**—Contract to Cady & Savonell for Douglas st. storm sewer, and to Frank T. Leeder for Center st. storm sewer.

**Minn., Eveleth**—Contract to Gust Hiner, Duluth, for a sewer ditch, \$4,139. Other bidders were Risberg & Warwick, Virginia, \$4,617; Eklund & Hedberg, Duluth, \$4,991; Northern Plumbing & Heating Co., Eveleth, \$4,637; Butler Con. Co., Virginia, \$4,533; Lawrence-McCann Co., city, \$4,187.

**Sask., Saskatoon**—Contract to Mackenzie & Thayer, Ltd., city, agents American Sewer Pipe Co., Akron, O., for sewer pipe and specials, at \$7,292.

**Wash., Everett**—Contract to Atlas Constr. Co., city, for 36th av. sewer extension, at \$135,000.

**Wis., Chippewa Falls**—Contract with Pastoret Construction Co., Duluth, Minn., for sewer on Main st., at \$10,908; other bidders were Thos. E. Wooley, La Crosse, Wis., \$13,033; Wm. Danforth, St. Paul, \$12,292; Illstrup & Olson, Minneapolis, \$12,136; Cast Stone Construction Co., Eau Claire, Wis., \$11,964.

## BRIDGES

*Notes arranged alphabetically by States.*

\***Iowa, Boone**—Resolved to construct 12 bridges. Objections May 11. G. H. Getty, county auditor.

**Iowa, Conrad**—Miller-Hay Co., Waterloo, were awarded contract for 12 bridges and culverts at \$6,650.

**Iowa, Des Moines**—G. W. Koss Construction Co. of this city was awarded contract for 7th st. bridge at \$139,000.

**Iowa, Earlville**—Delaware county board will spend \$6,000 for four bridges.

**Iowa, Onawa**—Hearing on construction of bridges and culverts, May 11. J. P. Olander, county auditor.

**Minn., Ada**—County board will set date for receiving bids on two bridges at meeting May 14; D. E. Fulton, county auditor.

**Minn., New Prague**—New Prague Foundry Co. received contract for concrete bridge at Montgomery.

**Minn., Winona**—The city of Winona will have to build the high wagon bridge approach on Wisconsin side of river and plans will be prepared at once.

**Mont., Livingston**—A bridge, 24-foot span, will be built this season at Pine Knob over Crow Branch.

**Mont., Missoula**—County commissioners have been petitioned by Mrs. Betta Cyr and others for bridge to connect Big Flat district with Grass Valley.

**Wis., Ashland**—Town of Jacobs will have two bridges, East Fork Chippewa and Mud Creek.

**Wis., Ashland**—County board has received petition for bridges from town of Jacobs.

**Wis., Grand Rapids**—Agitation started for wagon bridge in eastern part of city.

**Wis., Menomonie**—Omaha Ry. Co. is rebuilding bridge over track on North Menomonie road.

\***Wis., Sheboygan**—Town board of Mosel let contract for steel work on bridge to Milwaukee Bridge Co., for cement to Aug. Mallman.

### BIDS WANTED.

**Minn., Alexandria**—Bids received by E. J. Brandt, 1 a. m., May 8, for building bridge in town of Belle River, two 30-foot spans, 18-foot roadway, concrete slab floor, concrete abutments, I-beam pier. Check for 5 per cent.

**Minn., Canby**—Bids received by John Meyer, 3 p. m., May 11, for concrete bridge.

\***Minn., Minneapolis**—Bids received 11 a. m., May 25, for building bridges in Edina; plans with county surveyor, court house, also for other bridges. Bids received 11 a. m., May 18, for painting bridges 8, by county board, court house; specifications with county surveyor.

**Minneapolis**—Bids received by K. E. Alexander, purchasing agent, May 12, 3 p. m., for Washington fir for E. Lake st. bridge.

**Minn., Wabasha**—Bids received by Geo. J. Ginter, county auditor, 12 m., May 14, for erection of steel and concrete bridges, Nos. 827, 1236, 1243, 1244 and 1261, contractor to furnish all labor and material, except steel, furnished by county.

**Mont., Billings**—Bids received by C. H. Newman, chairman, 2 p. m., May 9, for erection of two 16-foot and two 32-foot timber bridges near Pineview. Arthur Boyer, county surveyor. Check for 5 per cent.

**Mont., Dillon**—Bids received by Jay Baker, county clerk, May 29, 10 a. m., for steel or concrete bridge across Big Hole river near Divide; check for \$250.

**Mont., Glasgow**—Bids received by J. W. Dale, clerk, 10 a.

m., May 4, for steel span bridge over Beacer Creek near Malta. Check for 5 per cent.

\***N. D., Forman**—Bids received by D. K. McPherson, county auditor, 2 p. m., May 12, for building county bridges for the year.

**Wis., Fond du Lac**—Bids received by A. S. Wilkinson, county clerk, 10 a. m., May 5, for building reinforced concrete bridge and abutments in the town of Empire.

**Wis., Oconto**—Bids received by Gustave Otto, chairman, town board of How, for reinforced concrete bridge over south branch of Oconto river, 3 p. m., May 19.

**Wis., Oshkosh**—Bids received by board of public works, 2 p. m., May 13, for painting Main st. bridge. R. A. Hollister.

### CONTRACTS AWARDED.

**Iowa, Onawa**—Contract to Omaha Structural Co. for construction of five bridges, at \$2,648. Bids for culverts rejected.

**Iowa, Pocahontas**—Calhoun county board let contract for concrete bridge across Coon river, at \$10,970. Board is advertising the letting of two other concrete bridges.

**Minn., Buffalo**—Contract for corrugated culverts let to Ft. Dodge Construction Co.

**Minn., Lynd**—Contract for state bridge No. 1260 let to Bladholm Bros., Marshalltown, Iowa, at \$1,395.

**Minn., St. James**—Contract let to Jas. Schmidt, this city, for state bridge No. 1254.

**Mont., Forsythe**—Montana Bridge & Structural Co. received contract for bridge over Sheep creek.

**N. D., Fessenden**—Minneapolis Bridge Co. received contract for bridge, at \$948.

**Wis., Jefferson**—Walter Blake, Appleton, contract for bridge over Rock river; cost \$16,000.

**Wis., Lawrence**—Fred Garceau awarded contract for rebuilding concrete culvert near here.

\***Wis., Shell Lake**—Contract for steel and concrete bridges awarded to E. Rylander, Shell Lake, and A. C. Thorberg, Ridgeland.

## DRAINAGE AND IRRIGATION

*Notes arranged alphabetically by States.*

\***Iowa, Alden**—Town of Alden will install \$14,000 drainage extension system this season; address town clerk.

**Minn., Aitkin**—Date changed for hearing county ditch 28, from May 7, to June 2.

\***Mont., Forsyth**—W. H. Klaur has contract to extend Sanders ditch 12 miles.

\***N. D., Grand Forks**—A. F. Turner has contract for ditch to drain 900 acres near Peking, Nelson county.

\***Mont., Great Falls**—Engineers conference, reclamation service, considered big Montana work, including discharge works, Shoshone reservoir, designs for Sherburne Lake reservoir dam, installation of hydro-electric and mechanical devices and outlet works; bids in May 27 at Malta for earthwork and structures; Vandalia Point; 160,000 pounds steel, 1,900 cubic yards concrete, etc. H. N. Savage, chief engineer.

**Mont., Great Falls**—Of ten bidders for St. Mary canal, St. Mary unit, Milk river project, only one, McArthur Co., New York, filed bids on every item of schedule, total cost nearly \$300,000. Other bidders, Adelbert Cazier, Canada; J. S. Galbraech of Browning; Condon & Williams, South Omaha; Midwest Engineering Co., Omaha; Bereance & Cleaver, Seattle; Security Bridge Co., Billings; Robert Wakefield, Portland; J. E. Hilton, Malta; A. L. Marcus, Polsoo; work includes structures found headworks for 29 miles.

**Neb., Lincoln**—Preliminary survey approved at Washington for storage project Phelps, Kearney, Gosper and other counties.

**Neb., Lincoln**—Survey of the Loess plains of southern Nebraska will be undertaken by state engineers, the soil survey and the U. S. reclamation service, within two weeks to determine the feasibility of constructing a canal from the Platte river through the plains of Southern Nebraska.

**N. D., Aneta**—Bond sale May 25, at Lakota, for \$9,215, to construct drain, Nelson county; Peter Sjurseth, auditor, Lakota.

### BIDS WANTED.

\***Iowa, Boone**—Bids received till 12 noon, May 15, for drain 107. Check for 10 per cent. G. H. Getty, auditor.

**Iowa, Jefferson**—Bids received 1 p. m., May 11, by county auditor, Jefferson, for several thousand feet of tile, 5-inch to 32-inch; work done by sections; bids for excavates for drains must be per foot deep and rod long. Bids on open ditch by cubic foot. Work to be commenced on or before June 15; check for 10 per cent.

**Iowa, Sibley**—Bids received till 12 p. m., May 12, for drain-



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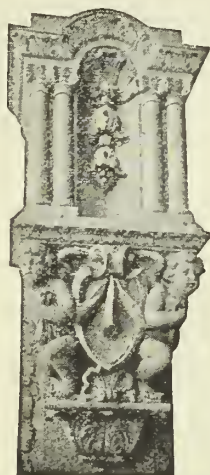
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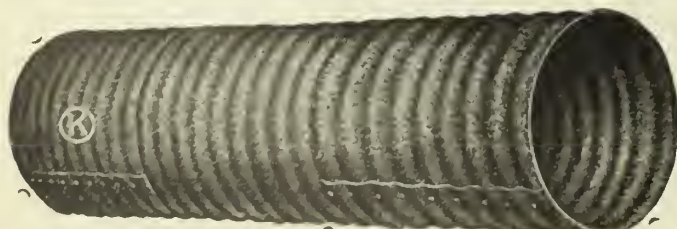
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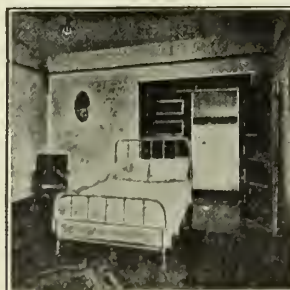
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age district 18, Osceola county; tile, delivered; sewer pipe for 12 inlets 6 to 15-inch; clay tile above 14-inch to be vitrified, salt glazed; V. A. Burley, county auditor; L. A. Wilson, engineer.

**Minn., Fairmont**—Four judicial lettings are set for May 20, No. 35, at 1:30 p. m.; No. 34, 1 p. m.; No. 36, 2 p. m.; 37, 2:30 p. m.; for 35, tile will be required as follows: 4,600 16-inch; 6,000 feet 12-inch; 2,200 feet 10-inch; 4,300 feet 8-inch; 1,750 feet 7-inch; 200 feet 6-inch tile for No. 34; 1,300 feet 24-inch; 4,200 feet 18-inch; 7,000 15-inch 700 feet 12-inch; 5,400 feet 10-inch; 14,900 feet 8-inch; 5,300 feet 6-inch; No. 36 14 feet open ditch, estimated cost \$8,312; 42 feet 6-inch tile; 5,300 feet 24-inch; 15,100 feet 21-inch; 700 feet 20-inch; 2,000 feet 18-inch; 2,800 feet 16-inch; 6,100 feet 14-inch; 100 feet 15-inch; 8,992 feet 12-inch; 11,400 feet 10-inch; 21,655 feet 8-inch tile, 5,605 feet 7-inch; 6,750 feet 6-inch, retaining wall; No. 37, 2,800 feet 18-inch tile, 1,000 feet 26-inch; 1,400 feet 24-inch, 1,500 feet 22-inch; 2,100 feet 20-inch; 3,700 feet 18-inch; 3,900 feet 16-inch, 1,000 feet 14-inch; 5,100 feet 12-inch, 12,262 feet 8-inch; 4,200 feet 7-inch; 1,150 feet 6-inch; estimated cost 35, \$5,753; No. 34, \$13,668; No. 36, \$47,370; No. 37, \$23,181; hard burned clay tile, except 37, slay or cement tile; H. C. Nolte, auditor, Martin county; check 10 per cent.

\***Minn., Hild**—Bids till 2 p. m., by John Ramage, clerk, for three ditches, Deer Park township; 185 rods.

\***Wyo., Basin**—Bids in May 20 on repairs, etc., for Lake Adelaide outlet dam completion; Wyoming Irrigation Co., Basin, 22,000 yards earth; 4,000 yards rip-rap.

#### CONTRACTS AWARDED.

\***Minn., Albert Lea**—Contract ditch 28 to S. O. Briggs, Omaha, at \$20,000 for open work; tile for laterals to D. L. Davidson, Forest City, Iowa, \$8,787.

**Minn., Bemidji**—Contract for judicial ditch 21 was awarded to W. N. Lana, Council Bluffs, Iowa, at \$257,333; Kohler Construction Co., Frazee, Minn., \$351,952; N. W. Drainage Co., Grand Rapids, Wis., \$332,181; J. L. George county auditor.

**Minn., Crookston**—Contract awarded county ditch 90, to Mulgrew-Boyce Co., Dubuque, Iowa, at \$10,558.

**Minn., Duluth**—Contract awarded county ditch No. 2, Meadowslands, to C. W. Rood Constr. Co., Grand Rapids, Wis., \$37,597; includes rock excavation, \$1.50 per yard; metal culverts, 56 15-inch, \$22 each; grading, \$100 per mile; clearing and grubbing, \$70 per mile; bridges, 18 to 30-foot span, \$237 to \$410 each.

**Minn., Thief River Falls**—Contract for \$400,000 judicial ditch 21, Thief Lake ditch, awarded to Lana Construction Co., Council Bluffs, Iowa, 9½¢ yard; N. W. Drainage Co., here, bids 12¾¢, contract below engineer's estimate; main ditch and laterals, form system of 218 miles culverts, roadwork and bridges.

**Mont., Billings**—Contract awarded for Carroll drain to Gagnon & Co., by Drain. committee, Daniel Sullivan, at \$12,275.

## WATER WORKS

*Notes arranged alphabetically by States.*

**Iowa, Mt. Pleasant**—Council authorized city clerk to advertise for bids for a 200,000-gallon concrete reservoir and an underwriter steam fire pump at water works plant.

**Minn., Alexandria**—Council will sink deep well and build reservoir for water system. Plans by J. F. Druar, Oscar Clausen Engineering Co., Commerce bldg., St. Paul. A motor driven centrifugal pump will probably be used.

**Minn., Aurora**—Contract for drilling well let to Mr. Sharp, Virginia.

**Minn., Sandal**—C. T. Stevens, engineer, Fergus Falls, is preparing estimates for water works system here; mail RFD. from Fleming.

**N. D., Williston**—Election May 18 on bonds for \$13,000 for filtration plant; G. G. Harvey, city auditor.

**S. D., Veblen**—Water works bonds for \$16,000 were voted; C. B. Halsey, mayor.

**Wis., Fond du Lac**—Water main extensions will be laid on four streets.

**Wis., La Crosse**—Board of public works was authorized to advertise for construction of water mains on various streets of the city.

**Wis., Monroe**—Bids for fire pump rejected and new bids will be called for.

**Wis., Sheboygan**—Village board of Kohler engaged Donahue & Sinz to prepare plans for water works.

#### BIDS WANTED.

**Iowa, Boone**—Bids received by Otto Hile, city clerk, May 13, 7:30, for extension of water mains; 25,000 4-inch mains, hydrants, valves; check \$500.

**Iowa, Clinton**—Bids received by C. C. Williams, clerk, 2 p. m., May 11, for water works system as follows: 6 miles 4 to 10-inch cast iron pipe, 50 hydrants, 100,000-gallon steel tank on steel tower; 1 40 h. p. motor, brick pump house and open well; check for \$500 on all or any section; Iowa Engineering Co., engineers.

**Iowa, Creston**—Bids received by F. A. Shute, town clerk, 8 p. m., May 12, for sinking a well for town of Afton.

\***Iowa, Perry**—Bids received by city clerk, until 8 p. m., May 25, for reinforced concrete reservoir. Check for \$500. Officially advertised in this issue of the Improvement Bulletin.

**Minn., Clearbrook**—Bids received by E. D. Rydeen, secretary, RFD. No. 2, for drilling a 3-inch tubular well for creamery; bids opened May 9.

**Minn., Litchfield**—Bids received by village council of Litchfield, Minn., for a steel water tank, capacity of 80,000 gallons, till May 25, at 8 p. m., specifications and plans on file with the village recorder, H. S. Johnson, councilman, first ward.

**Minn., Preston**—Bids received by B. R. Danielson, recorder, 8 p. m., May 11, for extension of water mains, 970 feet 4-inch, 1,158 2-inch.

**Mont., Glasgow**—Bids received by E. E. Crawford, clerk, 8 p. m., May 13, for furnishing labor and material for construction of water main extension in special improvement district No. 18.

**Wis., Colfax**—Bids received 2 p. m., May 11, by C. A. Kinney, clerk, for construction of water works system, steel tank and tower, drilled well 10-inch casing, 100 feet deep, pump house and one 15 h. p. geared base oil engine pump and accessories, 2,000 ft. of 8-inch pipe lead laid 8 ft. deep, 3,000 ft. 6-inch pipe laid 8 feet deep, 600 feet 4-inch pipe and 12 fire hydrants; A. T. Thompson, consulting engineer.

**Wis., Independence**—Bids received by Jacob Jackson, clerk, 8 p. m., May 14, for reservoir roof. Plans by Geo. P. Bradish, La Crosse.

**Wis., Oshkosh**—Bids received by board of public works, 2 p. m., May 14, for furnishing 9,000 feet of 2-inch galvanized, genuine, full weight, guaranteed, wrought iron, lap-weld pipe; 1,500 lineal feet 6-inch standard cast iron water pipe; 800 4-inch cast iron pipe, and 1,000 pounds of specials. R. A. Hollister.

**Wis., River Falls**—Bids received by city clerk, 6 p. m., May 7, for one outside packed triple plunger, pump, 250 gallons per minute.

#### CONTRACTS AWARDED.

**Minn., Northome**—Hennepin Bridge Co. received contract for steel tank.

**Mont., Kalispel**—Contract for reservoir and pipe line let to O. U. Miracle Co.

**N. D., Grand Forks**—Contract for dryer pump and motor let to Dayton Beaton-Hoyt Co., Chicago.

**Wash., Centralia**—City commission awarded contract for reservoir to Harbor Paving Co., Aberdeen, at \$22,19.

## HOTELS AND HOSPITALS

*Notes arranged alphabetically by States.*

**Iowa, Atlantic**—Foundation in for hotel built by Geo. F. Land; 35x60, 2-story, \$10,000; private plans; day labor.

**Iowa, Council Bluffs**—Barney Gilinsky has purchased Metropolitan hotel and may wreck it and build new one.

**Iowa, Iowa City**—Plans in progress for nurses' home, built by state of Iowa, estimated to cost \$50,000; Proudfoot, Bird & Rawson, architects, Des Moines.

\***Iowa, North McGregor**—An addition being built to Ferris hotel.

**Iowa, Sioux City**—Plans about finished for rebuilding hotel and store owned by J. A. Magoun, 1616 Pearl st.; 42x90, 3-story and basement; cost \$25,000; builders probably Coomers & Small, United Bank building; Buettler & Arnold, architects, Security National Bank building.

**Minn., Dawson**—Plans completed about May 16, for surgical hospital owned by Drs. Stensrud and Johnson, city; 35x71, 2-story and basement; E. H. Sund, architect, 431 Andrus building, Minneapolis.

**Minn., Grand Rapids**—Plans for new hotel secured by Sam Patelle to take place of Montreal house; 50x80, modern.

**Mont., Three Forks**—The Milwaukee railroad will build hospital; site secured, funds on hand; plans prepared; address local agent, Milwaukee Ry. for information.

**Neb., Grand Island**—Plans soon completed for remodeling and addition to hotel; cost \$6,000; Koehler hotel, owner; R. L. Reed, manager; Oscar R. Kirchke, architect, city.

\***Neb., Norfolk**—Contract to Chas. Van Winkle for plumbing in Pacific hotel.



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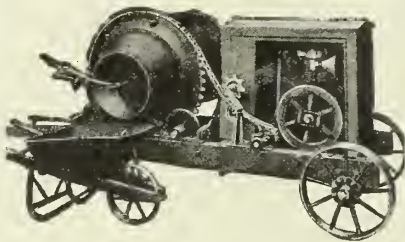
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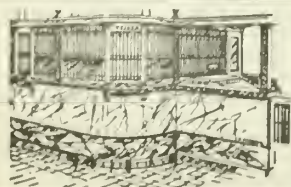
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**N. D., Regent**—Johnson hotel burned; Harvey Johnson, owner.

**S. D., Effington**—Mrs. Barnett's hotel moved and an addition will be built.

**Wis., Taylors Falls**—A hotel to cost \$60,000 is being talked of; address the mayor.

**Minn., Waseca**—Sketches completed for hospital, owner's name withheld; 85x49, 3-story and basement; Alban & Lockhart, architects, 407 Chamber of Commerce building, St. Paul.

#### BIDS WANTED.

**D. C., Washington**—Bids received by Cato Sells, commissioner Indian Affairs, until May 21, for brick hospital at Cheyenne River and Rosebud reservations, S. D.

**Iowa, Marshalltown**—Bids being taken by W. A. Evans, owner, 8 N. 3d st., for rooming house; 35x80, 2-story and basement; private plans.

**\*Minn., Fergus Falls**—Bids received by C. W. Kaddatz, until noon, May 20, for plumbing, steam heating and vacuum piping in a hotel and bakery building; check \$1,000.

**Mont., Dodson**—Proposal for 3-story brick hotel, occupying corner lot on Front st., will be received by David V. Dutro; estimated cost not given; work will start not later than June 1.

**Neb., Geneva**—Bids received by Leo Matthews, secretary state board of control, state hospital, Lincoln, Neb., until May 18, for girls' industrial school, 58x131, 3-story and basement, \$50,000; J. W. Salmon, architect, First National Bank building, Lincoln.

**Neb., Omaha**—State Board of Control, Lincoln, Neb., will take bids until May 18, for deaf and dumb institute; 60x171, 2-story and basement; cost \$60,000; J. H. Craddock, architect, Continental block, Omaha.

**Wis., Green Bay**—Bids received by Fred Altmayer, chairman, special building committee, until 11 a. m., May 18, for heating, plumbing, water supply system, electric wiring and hardware trim for Brown county tuberculosis sanitarium; check 5 per cent.

**Wis., Solon Springs**—Bids being taken for addition to hotel owned by Duluth Brewing & Malting Co., cost \$15,000; Wangenstein & Giffusion, architects, Providence building, taking bids.

**Wis., Stangelville**—Bids wanted by Burt Paider, general contractor for hotel and dance hall being built by Joseph Konop, for roofing and painting.

#### CONTRACTS AWARDED.

**\*Iowa, Grinnell**—Contract for extension to Monroe hotel awarded to John Jacobson, Marshalltown; 40x80, 3-story, frame, \$15,000.

**Minn., Keewatin**—Contract to Tomlinson & Egan to build 2-story brick hotel building for James Theodore, cost complete and furnished, \$20,000.

**Minn., Kelliher**—General contract to Jas. Sack, St. Paul, for hotel owned by Geo. E. Gunderson Co., Kelliher; 74x80, 2-story and basement; \$10,000; C. H. Parsons, architect, Phoenix building, Minneapolis.

**Minn., St. Cloud**—Contract for plumbing on Grand Central hotel let to Frank C. Olson, Alexandria, at \$3,000.

**Wis., Stangelville**—General contract awarded to Burt Paider, masonry to Fred Wolf, both of Kewaunee, Wis., for hotel and dance hall; Joseph Konop, owner; hollow tile and brick.

## THEATRES AND HALLS

*Notes arranged alphabetically by States.*

**Alta., Calgary**—Marcus Loew will erect a chain of theaters for the Sullivan-Considine circuit in northwest Canada, the points in view being Calgary, Edmonton, Saskatoon, Prince Albert, Regina, Brandon and Moose Jaw.

**Iowa, Cedar Rapids**—B. W. Umbreit, purchased site on 10th st. and will build moving picture theater; sloping floor, balcony, stage 20x24, modern ventilation and lighting, seating capacity 800, brick construction.

**Iowa, Cedar Falls**—Plans in progress for an amphitheater for the Cedar Valley Fair association; 76x370; W. Pedicord, architect, Waterloo, Iowa.

**Iowa, Clear Lake**—Work begun on brick building for moving pictures, seating capacity of 450; will be leased to Branson Bros.

**Iowa, Dunlap**—Frank Pfeiffer will build theater, 25x80.

**Iowa, Galva**—Work begun on Hoops opera house.

**Iowa, Ocheydan**—Al Fritz will build picture theater building.

**\*Iowa, Otto**—Citizens raising funds for an opera house; address the mayor.

**\*Iowa, Shenandoah**—Algonquin club planning to build club house; R. J. Richie, president.

**Iowa, West Liberty**—Company formed to finance new Masonic temple; plans by Mills, architect, Detroit, Mich., 3-story.

**Minn., Coleraine**—The Trout & Boat club will build boat house to cost about \$5,000; W. W. Hunter, president.

**Minn., Fairmont**—Sketches being prepared for theater and store for syndicate, care W. I. Parsons; 44x90, 2-story and basement; F. W. Kinney, architect, Plymouth building, Minneapolis.

**Minn., Hopkins**—Club building proposed, gymnasium, library, lounging room, billiards, bath, pool room, etc., cost \$6,000; address the mayor.

**Minn., Red Lake Falls**—The Findeisen Auto Co. expect to build 2-story structure, upper story for the Odd Fellows; 50x100, steel and concrete.

**Minn., Sebeka**—Commercial club decided on modern opera house, 32x80, seats for 300 on floor and 200 in gallery; site purchased; concrete, full basement; address secretary, Commercial club.

**Mont., Billings**—Plans being prepared for club house for Century club; cost \$4,000.

**Neb., Clarkson**—Preliminary plans completed for opera house and lodge to be built by the Bohemian society; 2-story and basement \$7,000; Wurdeman & Newman, architects, city.

**Neb., Clarkson**—Plans for opera house to be built by members of the Z. C. B. J. received, 45x130, brick, 2-story.

**Neb., Fremont**—A. H. Dyer & Co. will be architects of proposed theater building to be built by Johnson Farm Co.; probably steel and concrete.

**\*Sask., Regina**—A moving picture theater to cost \$40,000 will be built for D. M. Hackney; contract for construction held by Thos. Barnard.

**Wis., Phillips**—Plans for Odd Fellows hall being drawn by Samuel Schneider, architect, Chippewa Falls, Wis.

**\*Wis., Eau Claire**—Hiller Bros. have leased lower floor of Pythian Castle building and will expend \$15,000 in remodeling it into a modern vaudeville and picture theater.

**\*Wis., La Crosse**—The Orpheum Co. has been incorporated and a theater to cost \$100,000 will be built; F. J. Koppelman, city, G. A. Elder, Duluth, and J. J. Nash, Chicago, are the incorporators; 3-story cement and steel, seat 1,400.

**\*Wis., Menasha**—The Eagles are considering plans for new building on Main st. for lodge purposes.

**Wis., Sheboygan**—Max Schurer will build moving picture theater and work has begun; masonry work by M. Schuchardt; 28x100, seat 450.

#### BIDS WANTED.

**Iowa, Winfield**—Bids being received by C. A. Pratt, manager, Electric theater, for a motion picture theater building, 32x160, 2-story and basement; R. R. Mayberry, architect, Cedar Rapids, Iowa.

**Minn., Rochester**—J. E. Reid planning details for new vaudeville theater; contract to be let soon; seating capacity of 900.

**Ont., Fort William**—Bids have been called for by Harry M. Scott, architect, city, on a brick and concrete theater building for the Fort William Opera Co.

**Wis., Friendship**—Bids received by A. S. Neff, secretary, until noon, May 15, for Masonic hall and building; check 2 per cent.

#### CONTRACTS AWARDED.

**Sask., Regina**—Contract to Thos. Barnard for moving picture theater.

**Wis., Clintonville**—Contract for structural iron and steel for the theater, lodge and dance hall let to Oshkosh Steel Construction Co.; W. H. Finney, owner; Fluro Bros., architects, city.

## MILLS AND FACTORIES

*Notes arranged alphabetically by States.*

**Alta., Lethbridge**—Lethbridge Face Brick & Clay Products Co. will erect a new factory.

**Alta., McLeod**—A malting plant may be erected here soon; cost \$8,000; by Statley & Ward, of Edmonton, Alta.

**Iowa, Cedar Falls**—Work has started on the Cedar Falls Foundry plant, modern, concrete block; Summerhays & Weineck, owners.

**Iowa, Des Moines**—Schmitt & Henry will add a 4-story building to plant, 60x128, brick, modern.

**Iowa, Waterloo**—Fire damaged Waterloo Gasoline Engine Factory.

**Man., Swan River**—Theo. Burrows' mill, city, burned; may be rebuilt soon.

**Minn., Bemidji**—A \$20,000, 2-story brick building, will be built by Model Manufacturing Co., modern, Frank Koors, owner.



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**Mont., Great Falls**—Vincent Muggli of Glen Ulin, N. D. will build a modern flour mill about 200 bbls. per day.

**Mont., Livingston**—Contract for Park County creamery let to Frank Spencer, city, at \$2,216; excavation started.

**Mont., Red Lodge**—A flour mill will be built, funds being raised.

**Neb., St. Paul**—Fire destroyed the old mill; plans being made for a new one.

**N. D., Bismarck**—A new brick plant will be erected here.

**N. D., Bismarck**—The Farmers' Elevator Co., incorporated, capital \$25,000.

**N. D., Mantador**—J. J. Biegel will build a potato warehouse.

**N. D., Minot**—Site purchased for co-operative creamery building; J. E. Elsberry, Erick Husted interested.

**N. D., Minot**—S. Stewart of Morris, Minn., will build a flour mill here.

**N. D., Milnor**—A farmers' elevator will be built at Hoving.

**Sask., Regina**—The Regina Red Pressed Brick Co. will build a plant here, cost \$75,000.

**S. D., Alcester**—E. P. Hoard will build addition to his plant.

**S. D., Belle Fourche**—H. E. Millen, superintendent of the People's Gas Co., of Deadwood, S. D., plans gas plant here; cost \$25,000.

**Wis., Cadott**—Guy Spiers of Eau Claire Creamery Co., has let contract for cheese factory building.

**Wis., Curtiss**—Thos. Williams is building modern creamery for Mr. Luethy of Curtiss, 3 miles south of Abbotsford.

**Wis., La Crosse**—Farmers' Co-operative Packing Co. of La Crosse, incorporated, \$20,000 capital, new plant will be erected; Ira M. Chryst, Hudson, Wis., president.

**Wis., Rice Lake**—Inderriedan Canning Co. have commenced building.

**Wis., Rome**—Fire destroyed Rome Roller Mills and plant of Bark River Electric Light & Power Co., loss \$25,000; insured \$5,000.

**Wis., West Salem**—Martin Deifenthaler will build a mill, modern.

**Wis., Wausau**—Work has commenced on the foundation for the Wausau Sulphate Fibre Co.'s plant.

#### BIDS WANTED.

**Wis., Balsam Lake**—Bids received until May 30, for painting Lykens' Creamery and buttermakers' house, two coats of white lead and oil roof of creamery two coats of black elastic paint, barn red, with white trim, two coats; Geo. L. Freeman, secretary Lykens' Creamery.

#### CONTRACTS AWARDED.

**Minn., Blue Earth**—Contract for Blue Earth elevator let to the Newell Constr. Co., Cedar Rapids, Iowa.

**Minn., New Ulm**—Contract awarded to John Kennedy for new gas plant here. J. P. Smith and others, Minneapolis, owners.

**Mont., Lewistown**—A contract has been let for a modern creamery building here.

**N. D., Deering**—Contractor Stromsvold, Minot, was awarded mill house for farmers' elevator.

**N. D., Edinburg**—Directors of the Edinburg Farmers' Elevator Co. will build; contract let to D. F. Hoag, Minneapolis; ironclad, brick office.

**N. D., Grand Forks**—Contract let to Dinnie Bros., Grand Forks, for 5-story brick building, for Diamond Mill of the Russell-Miller Co.

**Wis., Frederic**—Contract awarded to Pederson Lumber Co., for building pickle factory for Gedney Pickling Co., Andrew M. Anderson, representative, 34x100.

Carpenter, Phoenix building, Iowa City, Iowa; cost \$7,000; 36 x64; J. Smecker, president, board of education.

**Iowa, Keokuk**—New school buildings will be built here this summer to cost \$95,000.

**Iowa, Keystone**—A 2-story and basement school building, cost \$20,000, preliminary plans in progress; W. F. Harding, secretary, board of education.

**Iowa, Terrill**—\$50,000 school bonds were voted.

**Minn., Cedar Lake**—Contract awarded to P. O. Malvick, for new school building, modern, cost \$3,000, 35x35.

**Minn., Cleveland**—Two-story, 15-room brick building with basement; according to plans and specifications submitted by A. E. Green, Minneapolis, Minn.; clerk, E. J. Kramer, Cleveland, Minn.; plans and specifications approved by state commissioner.

**Minn., Ely**—Two-story, 22-class-room brick building with basement, according to plans and specifications submitted by C. Howard Parsons, architect, Minneapolis, Minn.; superintendent, H. E. White, Ely, Minn.; plans and specifications approved by state commissioner.

**Minn., Foreston**—A modern brick 4-room school will be built.

**Minn., Yellow Medicine County, District No. 2**—One-room frame school building with basement; clerk, A. O. Brusven, Cottonwood, Minn., R. R. No. 1; plans approved by state commissioner.

**Mont., Mizpah**—A new school is being built in district No. 16, contractor Norton, city, has contract.

**Mont., Red Lodge**—School board considering new school.

**Mont., Sidney**—Haxby & Gillispie, architects, Fargo, N. D., have submitted plans for a school building, which were accepted by board, and plans will be ready for building May 15th.

**Neb., Burwell**—\$16,000 school bonds voted will soon select architect, 2-story and basement; address board of education.

**Neb., Oshkosh**—Board of education contemplates a 2-story school building; cost \$20,000.

**Neb., Peru**—Preliminary plans in progress for the state normal school; cost about \$90,000; J. H. Craddock, architect, 12 Continental block, Omaha, J. J. Tooley, secretary, board of education of normal schools, State House, Lincoln.

**Neb., Sargent**—A 2-story school building is being contemplated; cost \$20,000; care board of education.

**Neb., Upland**—A 2-story and basement, high and grade school, cost \$16,000; plans being prepared by architect, C. W. Way & Co., Hastings, care board of education.

**N. D., Lidgerwood**—A 2-story and basement parochial school 64x65, will be built, contract to be let about May 15; plans by architect, J. K. Vaness, Aberdeen, S. D., stone and brick; Rev. P. A. Duerr; cost \$16,000.

**S. D., Henry**—A. H. Shultz, architect, is preparing plans for a public school building, 52x80; cost \$22,000, contract let about June 1.

**S. D., Philips**—Board of education will advertise for bids to replace school burned; \$4,000 bond issue.

**\*Mich., Stambaugh**—Contract awarded to A. H. Proksch, Iron River, Mich., for the Caspain grade school; other bidders were: F. A. Bostrom, \$24,328; G. A. Gustafson, Norway, \$25,140; John Miron, \$25,191; W. E. Palley & Co., \$25,878; J. E. Utke, \$25,421; R. Anderson, \$26,729; Jacobus & Kahl, \$27,415; F. E. King, \$27,593; architect, Smith & Anderson.

**\*N. D., Ardoch**—Contract awarded to K. C. Hunter, Grand Forks, N. D., for a public school building. J. W. Ross & Sons, architects, Grand Forks, N. D.; brick, modern.

#### BIDS WANTED.

**Alta., Medicine Hat**—Bids received until June 1, for a new high school building; bids taken by J. L. MacCallum, secretary, school board.

**\*Iowa, Cedar Rapids**—Bids received by J. W. Ingold, secretary board of education, until noon, June 4, for grade school house. Check for 2 per cent. Officially advertised in this issue of the Improvement Bulletin.

**Iowa, Chariton**—Bids received until 2 p. m., May 18, for a school in district 9, Pleasant township, Lucas county; J. N. Shultz, secretary, route 8, Chariton, Iowa.

**Iowa, Chariton**—Bids received until 1 p. m., May 22, for an addition to school building; independent district of Chariton; P. T. Perry, secretary school board.

**Iowa, Davenport**—Bids received until May 8, noon, for general construction and heating alterations in the Polk county school; plans by Clausen & Kruse, architects, 316 Central building; check \$300; separate bids on heating; plans at office of architect; P. T. Burrows, president.

**Iowa, Hospers**—Bids received until 10 a. m., May 25, for a school building; Floyd township, Sioux county; D. De Krey, secretary.

**Iowa, Maurice**—Bids received until May 23, 9 a. m., for a school house in sub-district No. 1, Sherman township; Louis H. Hennrich, secretary, Maurice, Iowa.

## SCHOOLS

*Items marked with asterisks not run in Daily Sheets.*

**Alta., Calgary**—Erection of the Lutheran college is being planned.

**Iowa, Buck Creek**—A 1-story and basement school, 30x39, and 16x20, will be built; owner will build by day labor; cost \$7,000; plans by architect J. F. Latha, 114½ E. Water st., Waverly, Iowa; Rev. Adex, pastor, St. John's Evangelical Lutheran church.

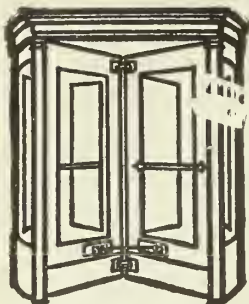
**Iowa, Burlington**—All bids on school were rejected as too high; new bids will be advertised.

**Iowa, Dubuque**—Work will soon begin on the Wartburg seminary buildings, Mann quadrangle, 160x130, bathrooms, incombustible stairways and partitions, fireproof, gothic ceiling in dining room, library, modern, plumbing, heating, and ventilating, local stone exterior, Bedford stone trim, tower; plans by architects Perkins, Fellows & Hamilton, Chicago; cost about \$150,000.

**Iowa, Guernsey**—A 4-room school, 2-story and basement, to be built, preliminary plans in progress by architect O. H.



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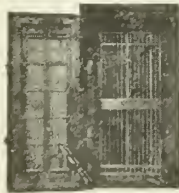
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**\*Iowa, Nora Springs**—Bids received by H. F. Schneider, secretary board of education, until 6 p. m., May 25, for school house. Alban & Lockhart, architects, St. Paul, Minn. Officially advertised in this issue of the Improvement Bulletin.

**\*Iowa, Sanborn**—Bids received until 1 p. m., June 1, for erection of school building to be joined to present building and repairs on present building. Plans by Architect J. G. Ralston, Waterloo, Iowa. Plans at office of W. A. Solon, secretary board of education; also with architect. Check for \$300. F. W. Horton, president. Officially advertised in the Improvement Bulletin this week.

**Minn., Gully**—Bids received until May 15, 7 p. m., for erection of a school building, frame, 2-rooms; plans by architect, Bert Keck, Crookston, Minn.; check for 5 per cent; L. H. Aos, clerk.

**\*Minn., Le Sueur Center**—Bids received until 2 p. m., May 22, for installing ventilating, heating and plumbing in the remodeled school, separate bids on heating and ventilating, bidders for plumbing must give separate bids for septic tank and piping outside. Check for 5 per cent. Plans by Architect H. C. Gerlach, Mankato, Minn.; Charles C. Kolars, secretary. Officially advertised in Improvement Bulletin this week.

**\*Iowa, Monetzuma**—Bids received until 2 p. m., May 23, for a school, including heating, plumbing and ventilating. Plans by Architect A. E. Green, 1099 17th av. SE., Minneapolis, on file at state bank, Cleveland; also with architect; to be completed Oct. 1, 1914. Check for \$1,000. E. J. Kramer, secretary board of education, consolidated district No. 2, Le Sueur county, Minn. Officially advertised in the Improvement Bulletin this week.

**Minn., Morrison county**—Bids received until May 15, for a frame addition to school building in district 74, Morrison county; plans at residence of clerk, J. B. Yourston, R. 6, box 24.

**Minn., Palo**—Bids received until May 23, 6 p. m., for an additional class room to school No. 1, district 56, St. Louis county. Plans were submitted by Architect Vernon J. Price Co., Duluth; on file at office of clerk, John J. Ljung; to be completed by Sept. 1.

**\*Minn., St. Paul**—Alban & Hausler, architects, Chamber of Commerce building, announce bids will be taken for the Nora Springs, Iowa, high school, until May 25; fireproof, brick, hollow tile, steam heat, finished basement, gymnasium, manual training, domestic science equipment, steel lockers. See official advertisement in Improvement Bulletin this week.

**Minn., Tyler**—Bids received until 8 p. m., May 16, for a school, district 73, Lincoln county; check 5 per cent; P. F. Glynn, clerk.

**Mont., Billings**—Bids received until 4 p. m., May 16, for installing six tubular spiral fire escape chutes on the following school buildings: Taft, Garfield, Broadwater, McKinley, Jefferson and Roosevelt; check for 5 per cent; James R. Goss, chairman, board; A. J. Thorine, clerk.

**Mont., Havre**—Bids received until May 11, 8 p. m., for excavating for addition to high school. Plans by Architect F. F. Bossout; E. C. Carruth, clerk.

**Mont., Helena**—Bids received until noon, May 15, for a frame school in district 22, Jefferson county, Helena, Borge-stede, clerk.

**Mont., White Sulphur Springs**—Bids received until 4 p. m., May 9, for a school in district No. 34, Meagher county, Mont.; plans on file with C. H. Brumfield, board of trustees, Ringling, Mont.; check \$250; Mrs. Alberta Muesey, clerk.

**Neb., Lincoln**—Bids received until 2 p. m., May 18, for material, labor, etc. for stone primary building, Nebraska state school for deaf, brick and stone, also for plumbing and heating; separate bids; and electric wiring; check 5 per cent. Plans at office of board of state house, Silas A. Holcomb, chairman.

**N. D., Crosby**—Bids received until 8 p. m., May 18, for a brick school, district No. 3; separate bids on general contract and heating; check 5 per cent; plans at office of clerk, W. D. Donovan, Crosby, Builders and Traders Exchange, St. Paul and Minneapolis, Minn., and office of Architect R. T. Frost, Minot, N. D.; 69x74, cut stone, common and press brick, steam heat, metal cornice and skylights, \$22,000.

**N. D., Harwood**—Bids received until May 29, 2 p. m., for school, frame; township 140; plans at office of Northern School Supply Co., Fargo, N. D.; check \$75; C. Brandvig, clerk, R. R. No. 1, Cass county.

**N. D., Linton**—Bids received until 2 p. m., May 16, for a school building, Wells district; plans with Jacob Rau, clerk.

**N. D., Loraine**—Bids received until May 11, 1 p. m., for a school building, Hurly district No. 8; plans by Architect J. C. Woodruff, Minot, N. D.; check 5 per cent; plans at L. E. Spellum & Co.'s store, Loraine.

**\*N. D., New England**—Bids received until 10 a. m., May

30, for the erection of a brick grade high school, plans by Architects Haxby & Gillespie, Fargo, N. D. Check for 5 per cent; plans at Builders' Exchange, Fargo, N. D.; Bismarck, N. D.; Minneapolis and St. Paul; office of clerk and architects. Bids taken at same time for heating, plumbing and wiring of buildings. Dr. J. W. Strivling, president; W. N. Burud, clerk, Hettinger county. Officially advertised in the Improvement Bulletin this week.

**N. D., Sheldon**—Bids received until May 25, noon, for a school, Owego school district No. 9, Ransom county; bids for warm air and ventilating plant received at same time; check \$300; on heating and ventilating check \$100; Arthur Rutherford, clerk.

**S. D., Vermillion**—Bids received until May 25, 8 p. m., for a school in Westerville district No. 29, remodeling; plans with H. N. Westre, clerk; check 10 per cent.

**S. D., Wakonda**—Bids received until 8 p. m., May 28, for remodeling school building, district No. 39, Westerville district; check 10 per cent; plans with clerk, J. N. Westre; Geo. Issenhuth, Huron, architect.

**\*S. D., Watertown**—Bids received until 8 p. m., May 22, for erection of the Grant and Lincoln school buildings; bids received separately, with exception of heating and plumbing; plans on file at office of clerk, Maude Elkins, independent school district., at Builders' Exchange, St. Paul, Minn.; check for 3 per cent. Officially advertised in the Improvement Bulletin this week.

#### CONTRACTS AWARDED.

**Iowa, Brushby**—Contract awarded to Mr. Harfield of Webster City for a school building in district No. 2.

**\*Iowa, Dennison**—Contract awarded to Frank Bolton, Dennison, Iowa, for building of school at \$4,255; other bids were: Herman Grill, Dennison; Fee & Koebler, Carroll, Iowa, at \$4,350. Bids on heating plant: Contract to A. A. Christensen, Dennison, at \$5,799; G. M. Badley, Carroll, Iowa, \$5,973; B. Grunwald, Omaha, Neb., \$6,108; Kadoch & Buckley, Dennison, \$7,119. Edgar L. Barber, architect.

**Iowa, Odebolt**—Contract awarded to Payette Construction Co., of Sioux City, Iowa, for new school in Coon Rapids, at \$25,818; plumbing let to A. Manning Co., at \$5,333; total cost \$31,000.

**Minn., Grand Rapids**—Contract awarded to W. N. Dalcour, local electrician, for wiring new addition to high school, district No. 1; cost \$663.

**\*Minn., Hastings**—Contract awarded Boyd Construction Co., St. Paul, Minn., for brick school, \$20,000.

**Minn., Jackson**—Wm. Lockner of Lakefield, has contract for school building, 34x34, in district No. 72, Sioux Valley, township.

**\*Minn., Winnebago**—Contract for frame school building not let yet.

**N. D., Oakdale**—Contract awarded to Arnt Ree, Manning, N. D., for a school building and barn, section 22, at \$1,080; other bids were: John Rurten, Oakdale, N. D., at \$1,525; Engold & Bro., Oakdale, N. D., \$1,075; Arnt Ree, architect.

**N. D., Spiritwood**—Bids were opened for 4-room school building, by Mr. Gillispie, architect, and contracts awarded as follows: General contract to L. W. Holder, Forman, N. D., at \$11,004; heating and plumbing, Valley City Plumbing & Heating Co., at \$1,563. Haxby & Gillispie, architects, Fargo, N. D.

**Wis., Arcadia**—Contract awarded to Kramer & Stevens, St. Charles, Minn., for 2-story school building, at \$29,550; Parkinson & Dockendorff, architects, La Crosse, Wis.

## CHURCHES

*Notes arranged alphabetically by States.*

**Iowa, Dehli**—Work will start at once on new Catholic church; cost \$12,000.

**Iowa, Ottumwa**—Congregation of B'Nai Jacob will build synagogue, 2-story, 40x60.

**Minn., Brainerd**—Evangelical church will be remodeled and made modern; seating capacity increased to 225; 1-story addition, recess and basement; cost \$3,000.

**Minn., Holdingford**—Catholic parish will build a solid brick fireproof church, modern, cost \$20,000.

**Minn., Hopkins**—St. Margaret's parish will build \$25,000 church—not St. Mary's.

**Mont., Helena**—Work will commence in about two weeks on the new Catholic cathedral.

**\*N. D., Cathay**—The St. Corey parish will build a small frame church, 30x60, cement foundation, pews, modern, furniture. Plans by Architect Olaf Thorshaug.

**N. D., Jamestown**—The Free Methodist organization will build a modern edifice, 50x140; Dunn & Maxwell, contractors.

**N. D., Pettibone**—It has been decided to erect a new Con-



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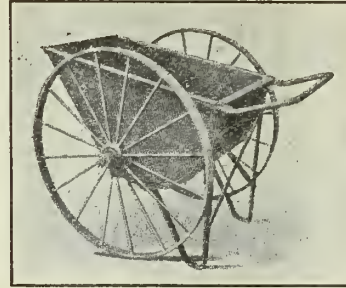
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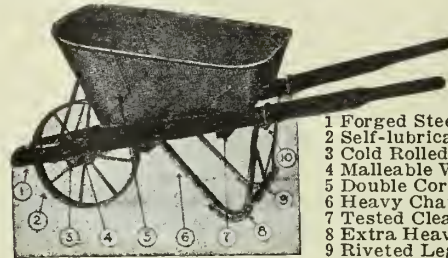


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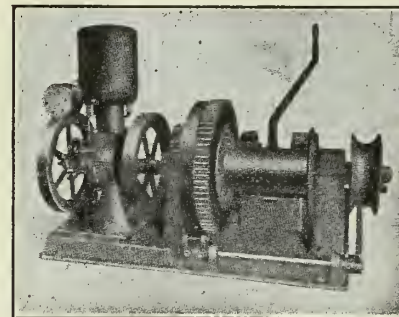
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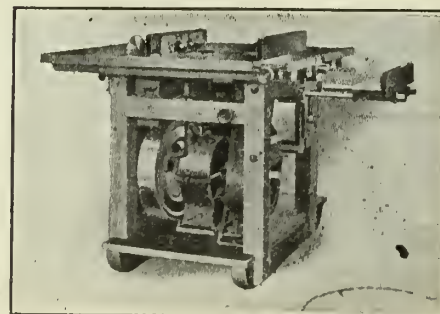
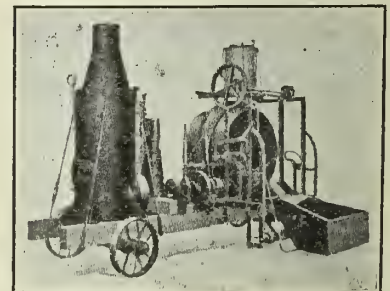
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gregational church at Malcolm; cost \$1,000; furnace heat, gas lights.

**Wis., Oshkosh**—A new church is being erected by the St. Vincent de Paul's congregation, 150x140, seats, 1,000, semi-fireproof, stone, concrete, tile, brick and terra cotta, vitreous facing brick, outside, tile floors, marble and cement, steps, slate roof, oak interior finish, steam heat, vapor system, electric lights, basement; Foeller & Schober, Green Bay, Wis., prepared plans; contract awarded to John Blachinsky, Green Bay; heating, plumbing and lighting will be awarded soon, estimated cost \$85,000.

**Wis., Wausau**—Board of trustees of First Universalist church have approved plans and will build new church, cost \$40,000; Rev. John Lloyd, rector.

#### BIDS WANTED.

**Minn., Winona**—Bids will be called for soon on new Olive Branch M. E. church.

**Mont., Three Forks**—Bids received until May 15, 4 p. m., for a church, complete. Plans at office of Dwyer & Waldorf, Three Forks, Mont.; T. J. Williams' store, Willow Creek, Mont. Address Rev. E. S. Wilson, secretary building commission, Willow Creek.

**\*N. D., Edgerley**—Bids received by Chas. Gunthorp, until 10 a. m., May 25, for a brick and stone church building. Check for 4 per cent. Plans by Geo. F. Fossum, Aberdeen, S. D. Officially advertised in this issue of the Improvement Bulletin.

**Wis., Rice Lake**—Bids received for a church building for the German Lutheran congregation, May 7, 10 a. m.; address J. G. Richter, Cumberland, Wis.; plans with the Jacobson Mercantile Co.

#### CONTRACTS AWARDED.

**Iowa, Rapid City**—Contract awarded to J. L. Robbins, for congregational church.

**S. D., Beresford**—Contract for M. E. church building let to Mr. Stolte of Redfield; cost \$14,000.

**Wis., La Crosse**—Contract awarded to the Western Construction Co. for new St. Wenceslaus Bohemian Catholic church; cost about \$24,776; heating awarded to J. H. Hengel.

**Wis., Madison**—Fire damaged Christ Presbyterian church \$30,000; Rev. Geo. E. Hunt, pastor.

## PUBLIC BUILDINGS

*Notes arranged alphabetically by States.*

**Iowa, Dubuque**—County board figuring on plans for a modern laundry for "county home" at Julien; Thos. Scharle, county auditor.

**Iowa, Fort Dodge**—Site purchased and proposed to submit to voters soon proposition for \$75,000 city hall building; address city clerk.

**Iowa, Traer**—Citizens voted for a \$15,000 Carnegie library; address city clerk.

**Minn., Hutchinson**—Plans in progress for city hall, jail and fire station; F. N. Moore, city clerk; C. E. Bell, architect, Security Bank building, Minneapolis.

**Mont., Forsythe**—Election held in near future to vote on city hall and jail to cost \$5,000; address city clerk.

**Neb., Gothenburg**—W. F. Gernandt, architect, Omaha, has been instructed to prepare plans for the proposed Carnegie library; address city clerk.

**Neb., Lincoln**—Plans have been prepared for the proposed new building at the county farm, 64x112, 2-story, brick and stucco, \$20,000; address county clerk.

**Sask., Moose Jaw**—Contract for general work for fire hall on North Hill to Poole & Emery; heating and plumbing to Alexander & Baird.

**S. D., Clear Lake**—Plans being made for a city hall to cost \$10,000; T. L. Vought, city auditor.

#### BIDS WANTED.

**Ark., Newport**—Bids received by O. Wenderoth, supervising architect; Washington, D. C., until 3 p. m., June 8, for a U. S. postoffice, including mechanical equipment, interior lighting fixtures and approaches, 1-story and mezzanine building; ground area, 4,600 square feet; construction nonfireproof; stone and brick facing; composition roof.

**Iowa, Glenwood**—Bids being taken by Captain Humphrey, secretary building committee, for armory, 67x142, 2-story and basement, \$20,000; J. P. Guth, architect, Paxton building, Omaha, Neb.

**Iowa, Montezuma**—Bids received by W. C. McKee, auditor, Poweshiek county, until 1 p. m., June 2, for a county jail; check 5 per cent; officially advertised in this issue of the Improvement Bulletin.

**Kan., Arkansas City**—Bids received by O. Wenderoth, super-

vising architect, Washington, D. C., until 3 p. m., June 14, for U. S. postoffice complete, including mechanical equipment, interior lighting fixtures and approaches. The building is 2-story and basement, with a ground area of approximately 4,660 square feet; brick and stone facing; composition roof; first floor of fireproof construction.

**Minn., Brainerd**—City will advertise for bids about May 11, for city hall; plans by C. Howard Parson, architect, Minneapolis.

**\*Minn., Minneapolis**—Bids received by O. Wenderoth, supervising architect, Washington, D. C., until 3 p. m., June 10, for special lighting fixtures for the new postoffice. Officially advertised in this issue of the Improvement Bulletin.

**Mont., Livingston**—Bids received by C. H. Turk, architect, for an exhibition building for Park county, close May 16.

**Neb., Alliance**—Bids received by M. S. Hargraves, county clerk, until noon, May 21, for wood and steel furniture for new court house.

**Sask., Saskatoon**—Bids received by city commissioners, until May 30, for boilers, economisers, etc.

**Sask., Swift Current**—Bids received by E. Brown, deputy minister public works, Regina, until May 15, for building court house and land titles office.

**S. D., Belle Fourche**—Bids received by F. E. Bennett, county auditor, until 10 a. m., May 9, for changing and constructing buildings on poor farm; check 10 per cent.

**S. D. Gannvalley**—Bids received by W. H. Abernathy, county auditor, until noon, May 23, for county court house; check 10 per cent.

**Utah, Brigham City**—Bids received by O. Wenderoth, supervising architect, Washington, D. C., until 3 p. m., June 1, for construction complete, including mechanical equipment, interior lighting fixtures and approaches, of U. S. postoffice; 2-story, ground area 3,700 square feet, first floor fireproof, stone and brick facing, composition roof.

**Wis., Ashland**—Bids being taken by E. G. Fisher, secretary building committee, for court house, 3-story and basement, 84x120, \$125,000; H. W. Buemming, architect, 521 Jackson st., Milwaukee.

**Wis., Milwaukee**—Bids received by D. E. Bowe, secretary, until 10 a. m., May 16, for Wisconsin building, at Panama exposition at San Francisco; check for 5 per cent.

#### CONTRACTS AWARDED.

**Minn., Albert Lea**—Contract with John P. Green, city, for heating, plumbing and wiring of county poor farm buildings; \$7,200.

**Minn., Fairmont**—Contract with Erick Carlson, Mankato, for armory, \$14,372; heating and plumbing to F. W. Shutt, city, \$1,065; lighting not awarded.

**Minn., Pipestone**—Contract for decorating interior of court house let to Wm. G. Andrews Decorative Co., Clinton, Iowa, at \$2,750.

**Mo., Richmond**—Contract with L. W. Dumas, Columbia, Mo., for court house, at \$97,678; other bidders were Ray & Son, Louisiana, Mo., \$105,719; Hiram Lloyd, St. Louis, Mo., \$116,717; J. T. Carr, Liberty, Mo., \$111,182.

**Mont., Lewistown**—Contract with Piper Construction Co. for new postoffice building, exclusive of plumbing and heating \$21,000.

**Mont., Roundup**—Contract to J. M. Grant for vault for county treasurer.

**S. D., Tyndall**—Contract to Tyndall Light & Water Plant, city, for electric lights in the court house, at \$1,035; other bidders were the Morreau Manufacturing Co., Cleveland, O., \$1,063; Electric Construction Co., Sioux Falls, S. D., \$975; McGraw Co., Sioux City, Iowa, \$842; C. E. Stoddard, county auditor.

## ELECTRICAL

*Notes arranged alphabetically by States.*

**Iowa, Allison**—Hampton Electric Light Co. asks for a franchise for electric lights.

**Iowa, Buffalo**—Election May 18, to vote on issuing bonds for \$4,000 for electric lights; Wm. De Lap, mayor.

**Iowa, Cedar Rapids**—Iowa Railway & Light Co. will build transmission line from here to Tama.

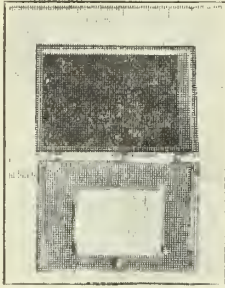
**Iowa, Davenport**—State Automatic Telephone Co., new organization, will install a local system, 173 miles of cable and will erect a \$45,000 exchange building; E. H. Moulton, Minneapolis, president; B. H. Osborne, Franklin, Pa., secretary.

**Iowa, Dennison**—Council bought Dennison electric light plant, new plant will be built; new machinery.

**Iowa, Earlville**—An electric light plant will be built here; H. J. Vanfleet, mayor.



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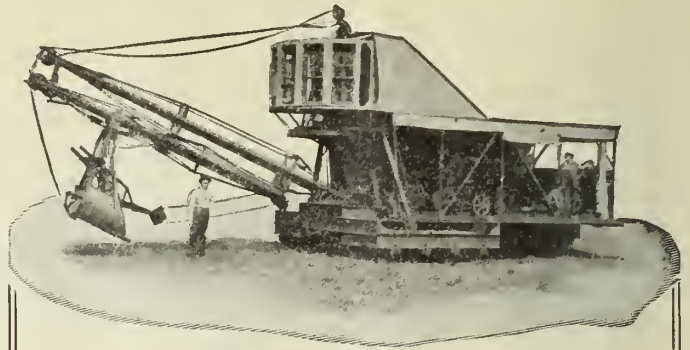
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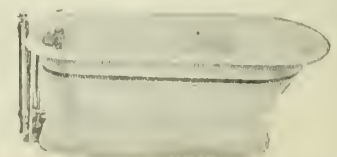


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**Iowa, Ft. Madison**—Another interurban line with Niota as terminal, planned; surveys being made by the Cappel Railway Co., New York.

**Iowa, Glidden**—North Glidden Electric Co. organized; president, Geo. Juergens; J. G. Robson, vice president; J. G. Merritt, secretary.

**Iowa, Little Rock**—Engineer Grover has prepared plans for an electric light plant here.

**Iowa, Oskaloosa**—C. E. Woodhouse, president of Iowa Traction Co., is promoting building a line from Traer to Waterloo.

**Iowa, Pierson**—It was voted to install an electric light system here.

**Iowa, Rhodes**—C. M. Head has sold the Rhodes Telephone Co. exchange and line to E. G. Beye.

**Iowa, Rockwell City**—Calhoun County Public Service Co. will erect 16 miles of transmission lines, three out-door substations, equipment for same and posts for lighting system; L. S. Boyce, manager.

**Iowa, Wabster City**—W. J. Elliot, Cedar Rapids, bought the independent telephone lines in this city.

**Minn., Barnesville**—Louis Norby is head of a committee to secure a white way lighting system.

**Minn., Bellingham**—Bellingham Electric Light Co. incorporated, L. F. Clarke and others.

**Minn., Bemidji**—White way is considered; B. F. Murphy, president of council.

**Minn., Blue Earth**—Board of public works was authorized to spend \$2,000 for installation of electric pumping service at power plant.

**Minn., Delano**—Power Distribution Co. will complete power plant here and connect uptowns along this line; A. G. Whitney, of St. Cloud, in charge.

**Minn., Duluth**—Council ordered new street lights installed at Gary.

**Minn., Eveleth**—Council plans to buy power plant of Home Electric & Heating Co.

**Minn., Granite Falls**—Stony Run Light & Power Co., Stony Run township; John J. Mooney and others.

**Iowa, Greeley**—An electric power plant will soon be installed here; V. E. Dows, interested.

**Minn., Hancock**—Otter Tail Power Co. will build a transmission line to this place; cost \$7,000.

**Minn., Hamburg**—A. J. Schnobrich is erecting a building for electric light plant.

**Minn., Hector**—Work will begin this week on transmission line to this place; A. J. Lembeck, superintendent.

**Minn., Henning**—Installation of an electric light plant is being considered for this place.

**Minn., Hibbing**—Water and light board are considering erection of a power plant and municipal heating service; cost \$265,000; L. A. Larson, consulting engineer, St. Paul; L. D. Haley, recorder.

**Minn., Lamberton**—Franchise granted for an electric light plant. Fred Griffin, interested.

**Minn., Mankato**—Luce Electric Co., Minneapolis, will build line through Butternut valley, farmers having subscribed \$12,000.

**Minn., Mazeppa**—Work has been begun on the Mazeppa telephone exchange.

**Minn., Preston**—A 5-year franchise was granted to Root River Power & Light Co., for electric lights.

**Minn., Williams**—Farmers' Telephone Co., organized and work will begin at once.

**Mont., Baker**—An election will be held June 23, to vote on issuing bonds for \$25,000 for construction of a municipal electric light plant.

**Mont., Livingston**—Commercial club considering ornamental street lights.

**Mont., Poplar**—N. J. Lindgren was elected president and general manager of Poplar Electric Co.

**Mont., Whitetail**—The telephone line will be extended from Redstone to Scobey and lines will be built between here and Ambrose Raymond and Plentywood.

**Neb., Allen**—Good Bros will soon begin building for their electric light plant.

**Neb., Holstein**—Daniel Essinger, local man, has applied for a franchise to install and operate an electric light plant.

**N. D., Bowman**—An electric light plant will soon be built here.

**N. D., Cando**—F. E. Corson of Fargo is negotiating for purchase of local electric light plant.

**N. D., Mapleton**—Mapleton Telephone Co. incorporated, capital \$15,000; A. Devine, C. F. Gibson and others.

**N. D., McClusky**—North Dakota Independent Telephone Co. will rebuild its lines here and improve the local exchange.

**Ore., Andrews**—Plans have been completed and surveys made for construction of a hydro-electric power plant on Wild Horse Creek this summer; Jean Bart Balcomb, Andrews, engineer

**S. D., Centerville**—At the bankrupt auction sale of the Centerville Telephone Exchange Co., property was sold to Marvid Carlson at \$16,700.

**S. D., Wessington Springs**—Rural lines and property of Wessington Springs Telephone Co. have been purchased by New Jerauld County Farmers' Telephone Co., possession June 1.

**Wash., Chehalis**—Ben Walling Jr., representing sufficient capital to build a power plant to supply southwest Washington cities, has asked council for a franchise.

**Wash., Port Angeles**—Olympia Power Co. is building a substation to supply electricity for all the industries of the city.

**Wis., Barron**—Work has been begun on a telephone line between here and Rice Lake.

**Wis., Chilton**—Residents of this city have sent a petition to Reiss interests, Sheboygan, owners of the Elkhart interurban lines, asking that line be built to this place via Holstein and Kiel.

**Wis., Janesville**—Rock County Telephone Co. will issue bonds for \$25,000, to buy new equipment.

**Wis., Kendall**—Kendall Electric Co. will erect building.

**Wis., Mineral Point**—Work will start shortly by Mineral Point Public Service Co. on a 33,000 volt transmission line through Milflin, Livingston, with extensions to Montfort and Highland; completed July 1.

**Wis., Dousman**—Work has started on the local electric light plant, L. J. Bischel, owner.

**Wis., Eau Claire**—Durand Light & Power Co. will erect power house and install equipment here; H. A. Miles, Durand, manager.

**Wis., Racine**—Wisconsin Telephone Co. will spend \$72,000 extending its system in and around this city.

**Wis., Rome**—The plant of the Park River Electric Light Co. here, was burned; loss \$25,000.

#### BIDS WANTED.

**Iowa, Earlham**—Bids will soon be called for, for equipment of the electric light plant.

**Minn., White Bear**—Bids received by J. E. Extrand, clerk, May 9, 8 p. m., for installation of 28 ornamental curb light posts.

**Neb., Kearney**—Bids received by T. N. Hartzell, city clerk, 8 p. m., April 29, for an ornamental lighting system; estimated cost \$10,500.

#### CONTRACTS AWARDED.

**Minn., Bemidji**—John Moberg this city, has contract to build 20 miles of road for the Minnesota Northwestern Electric Railroad Co.; cost \$60,000.

**Minn., Madelia**—White way contract let to Western Electric Co., Minneapolis.

**S. D., Aberdeen**—Contract for fixtures for municipal building let to Moran Hastings Manufacturing Co., Chicago, at \$1,955.

## BUSINESS BUILDINGS

*Notes arranged alphabetically by States.*

*Items marked with asterisks not in Daily Sheets.*

**Ill., Carthage**—Plans by architects, Payne & Sons, Carthage, Ill., for a store and office building, 2-story and basement, 44x100, brick, for Emrick & Owsley; cost \$10,000; concrete foundation, lytex brick, gravel roof, brick cornice, plate and prism glass, hard plaster, steam heat, pine and maple floors, pine finish, metal ceilings, arcade type store front, boilers, hollow tile, plumbing, contract not let.

**Iowa, Cresco**—W. L. Barker will build a new business block.

**Iowa, Lorimer**—Work has commenced on new bank, 25x77, 1-story, modern.

**Iowa, Manley**—V. E. Peshak will build a modern store, 22x110; plans in hands of architect; excavation has started on L. O. Knudson building; 100x22; foundation built for additional story.

**Iowa, Marshallfield**—First National Bank will build bank, \$75,000 to \$100,000; 4-story.

**Iowa, Murray**—Hardware store of J. C. Beeman burned; loss \$10,000.

**Iowa, Waterloo**—Waterloo Fruit & Commission Co. remodeling their building.

**Iowa, Webb**—Fire destroyed Summy Bros. store, Citizens bank, Elmer Masterson's garage, Webb Hardware Co. store, Record office; loss \$30,000.

**Minn., Adams**—J. P. Krebebech will build store, modern, 2-story, 49x80, pressed brick; Mike Schneider has plans for store, modern, 30x80, plate glass, metal front, brick; E. S. Erickson plans store, brick, plate glass front, stone trim, full basement.





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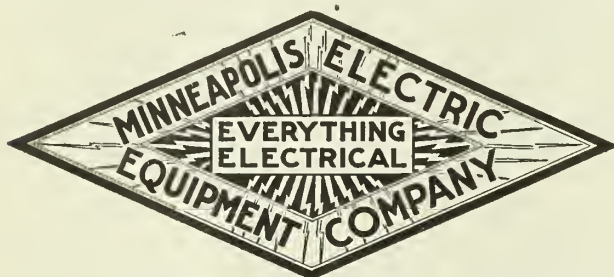
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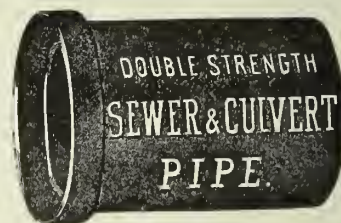
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**Minn., Biwabik**—Fire destroyed the Lindgren block; loss estimated at \$3,500 insured.

**Minn., Clara City**—Bank will be erected here this summer.

**Minn., Crookston**—The Bartells Northern Oil Co., will building a warehouse and three oil tanks, steel, modern.

**Minn., Crookston**—T. E. Clysdale will build a 2-story and basement business block, brick, modern.

**Minn., Dexter**—Geo. Meilke and S. D. Goetsch will build a modern store.

**Minn., Fairmont**—Fairmont Machine Co. will build a large modern building; foundation in.

**Minn., Grand Rapids**—Henry Hughes plans building store, modern, 75x140, brick or reinforced concrete.

**Minn., Jackson**—O. M. Garrett will build a new brick block.

**Minn., Le Sueur Center**—Fire destroyed T. A. Pomje garage, Hogan building, containing Grand Theater, Hamm Brewing Co.; loss \$10,000.

**Minn., Red Lake Falls**—J. A. Duffy will build a modern brick block.

**Minn., Stanton**—H. W. Nelson has begun work on his store building.

**Minn., Virginia**—Henderickson & Peterson are erecting a warehouse.

**Minn., Waconia**—Fred Pietz will build a 2-story modern brick building, pressed brick, contractor, Chas. Klatt, has mason work, and brick laying.

**Minn., Winona**—Fire loss on 2-story brick Pepin block estimated at \$10,000.

**Mont., Clyde Park**—Bliler Bros. mercantile firm of Walcott-Bliler Co. are receiving bids for a 2-story cement building, 50x100.

**Mont., Fort Shaw**—The store including postoffice of S. H. Wimmer, burned; loss about \$4,000.

**Mont., Great Falls**—The cooling and condensing department of the American Brewing Co., burned; loss about \$5,000.

**Mont., Great Falls**—John Duncan will build 3-story brick store and hotel \$18,000.

**Mont., Great Falls**—Plans filed for Ford-Commercial Trust & Savings Bank building, with building inspector.

**Mont., Great Falls**—Modern business block will be built by J. G. Anthony, 3-story, 50x150.

**Mont., Helena**—Contractor F. Jacoby is making improvements in the steamboat block for office of T. C. Power Co.

**Mont., Moore**—Contractor W. T. Sharp is drawing plans for a 2-story fireproof building for Richard Royston.

**Mont., Medicine Lake**—F. T. Pooler will build a 24x40 store.

**Mont., Roundup**—Plans ready for large brick store for F. M. Wall; Link & Hare, architects, Helena.

**Mont., Three Forks**—Mark Selway is building a modern business block, concrete blocks.

**Neb., Grand Island**—Plans for the Martin building on file at office of architect, Oscar R. Kirschke.

**Neb., Plattsmouth**—The Plattsmouth Ice & Cold Storage Co., incorporated, capital \$20,000; Fred T. Range, president; Chas. C. Parmele and others.

**Neb., Weeping Water**—R. S. McCleery has contract for foundation for large lumber shed for A. E. Johnson.

**N. D., Cummings**—Fire destroyed A. J. Carver & Co., general store; loss about \$15,000, insured \$5,000.

**N. D., St. Thomas**—Farmers' State Bank let contract for bank building, brick, 25x51, 1-story, pressed brick front, stone trim; G. H. Larson also let contract for a business building, brick, 25x24, plate glass front.

**Sask., Saskatoon**—Butler, Byers Bros. and Codere, are planning to build a brick building, are contemplating erection of another building; R. S. Byers, architect for both.

**Sask., Saskatoon**—Work will soon commence on the new building in place of old Cole block, recently burned; cost \$80,000; R. S. Byers, architect.

**Wis., Hurley**—Dan Endrezzi is erecting a 2-story brick building.

**Wis., Manitowoc**—Fire damaged the warehouse of the Iron & Metal Co., about \$500; Abraham Schwartz and David Balkansky, owners.

**Wis., Marshfield**—First National bank will build a modern 3 or 4-story bank and office building, \$75,000; B. F. McMillan, president; J. C. Marsch, vice president; H. G. Hambricht, cashier.

#### BIDS WANTED.

**Minn., Iowa Lake**—Plans prepared by W. E. E. Greene for a bank building for the First National Bank; brick, 1-story, 25x48, cost \$5,000; steel beams, lime cut stone, common pressed brick, hollow, hot water heat, asbestos shingle roof, patent plaster, plate, wired ribbed glass, tile floors, marble interior, oak finish; bids taken by owner.

**\*Minn., Warren**—Bids received by the People's Trading Co. until 2 p. m., May 14, for brick addition to store building.

Officially advertised in this issue of the Improvement Bulletin.

**Wis., Watertown**—Bids received until 2 p. m., May 12, for a machine and construction shop, by Otto Biefeld & Co., fireproof, 60x104 estimate cost \$10,000; architect A. C. Clas, Milwaukee, brick and steel, concrete foundation; modern, shower baths, toilets, separate bids on each part of construction.

#### CONTRACTS AWARDED.

**Minn., Lakefield**—Contract awarded to Anderson & Will, contractors, Mankato, for a 2-story brick restaurant building, for Wm. Moeller; cost \$7,000.

**Minn., Luverne**—Contract awarded to P. N. Gillham, for a modern brick business block by Chris Carstens, 25x84, 2-story and basement, plate glass.

**Minn., Willmar**—Kandiyohi County Bank will build; contract let to J. H. Olson, city, at \$34,000; exclusive of heating and plumbing, fireproof, metal doors and window frames and sash, palte and wire glass, Bedford stone, granite base, white sand lime brick, quarter-sawn oak finish, marble and art glass trim, ornamental plastered ceiling, terrazzo floors in lobby and entry, tile floors in toilet, shower baths, cement floors with battleship linoleum facings, total cost \$40,000.

**Mont., Great Falls**—Ness-Theisen Construction Co. have contract for the brick store of Louis Heyn, 2-story, cost \$7,000.

**Mont., Great Falls**—Contract awarded to Liegland Kleppe & Co., for addition to the Daly building, 3-story; cost \$14,000, 50x50, brick and terra cotta.

**Mont., Great Falls**—Work will commence about the middle of May on the Woechner building, for the Great Falls Drug Co., reinforced concrete, reinforcing steel, contract let to Ness-Theisen Construction Co.

**Minn., Ranier**—T. H. Kinsella has contract for building business block for Richard Walsh.

**Mont., Stanton**—Contract awarded to Brace Stanton, Lewis-town, Mont., at \$8,500, for new Basin State Bank building; other bidders: Lange Construction Co., Great Falls, \$7,512; W. F. Sharp, Moore, \$7,974; A. Sorenson, Stanford, \$9,773.

**Minn., Winthrop**—Contract awarded to Esfenson & Krueger for \$6,000 business block; J. C. Hanson Co. and State bank have contracted jointly for a \$20,000 business block; Winthrop Motor Car Co. will build \$15,000 garage.

**N. D., Grafton**—Ross & Siverson, contractors, of Crookston, Minn., have contract for a brick block for the Scandinavian American Bank.

**Sask., Regina**—Contract awarded to Frid-Lewis Co. for a warehouse for the Campbell, Wilson & Strathdee Co., cost \$100,000; work to commence at once.

**Wis., Delaven**—F. P. Van Velzer has let contract to Bothering of Burlington, for a 3-story business block, 60x72.

**Wis., Two Harbors**—Contracts for the Schnoor block were awarded: Frank Wolfe, mason work, Ben Pawiltzke, carpenter, R. H. Suettinger, tin work, Fred Dawson, plumbing; Mr. Anderson, wiring.

## MISCELLANEOUS

*Notes arranged alphabetically by States.*

*Items marked with asterisks not in Daily Sheets.*

**Iowa, Des Moines**—Bids being advertised for by Henry Bacon, associate architect, for placing foundation and pedestal for Allison monument.

**\*Minn., Chisholm**—Bids received by Fred C. Lang, village engineer, until 5 p. m., May 13, for wire fencing and metal posts for park and detention hospital grounds; check 5 per cent.

**\*Iowa, Marshalltown**—County fair association will build large swine and sheep pavilion at fair grounds; cost \$1,500 to \$1,800.

## ELEVATORS

*Notes arranged alphabetically by States.*

**Iowa, Ft. Dodge**—Farmers' Elevator Co. will soon begin elevator; Isaac Bird, manager of Farmers' Grain Co., interested.

**Minn., Adrian**—John Carlson of Worthington, Minn., is building an elevator for the Farmers' Elevator Co.

**Minn., New Pierz**—J. M. McGenty will receive bids until May 9, 5 p. m., for a potato warehouse; plans prepared by Rolland C. Buckley, architect, St. Cloud; check \$100; plans at First State Bank, New Pierz, and office of architect.

**Minn., Princeton**—Fire destroyed the potato warehouse of Ed. Saxon; insured.



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**Mont., Great Falls**—State Elevator Co. incorporated; capital \$50,000; T. C. Powers, J. Ritter and Aug. Echwachheim, incorporators.

**N. D., Kenmare**—An Eastern syndicate is considering erecting an elevator here. A. R. Shulton, W. B. Moberly and Wm. Walton, representatives.

**Wis., Canton**—Will McKee of Cameron will build a large potato warehouse.

**Wis., Clintonville**—Fire destroyed the elevator of Mr. Hoffman; loss about \$4,500; insured at \$2,500.

## RAILROADS

*Notes arranged alphabetically by States.*

*Items marked with asterisks not in Daily Sheets.*

\***Minn., Hibbing**—Viaduct will be built by Great Northern at Alice.

**Minn., Northfield**—H. A. Whittier got contract for grading and laying 40 miles track Bedlem and Fairmont railroad.

**Mont., Butte**—Milwaukee road assures new station here, plans nearly ready, will be in Butte soon for bids; completed this year; cost \$250,000.

**Mont., Great Falls**—New Milwaukee station will have tower 140 feet high; revised plans received call for gable roof, Spanish tile, brick, ornamental concrete block, trimming; concrete plant for station being installed by Chris Johansen, general foreman of construction.

\***Wis., Endeavor**—Soo will build a roundhouse here.

\***Wis., Sturgeon Bay**—Contract let to Dennison & Van Calster, Green Bay, Wis., for Sturgeon Bay, Wis., station, Ahnapee & Western Railway Co., \$6,338; vitrified brick, 1-story, 33x56, furnace heat, asbestos shingles, reinforced concrete floor with terrazzo floor and bases; plumbing, wiring. P. T. Benton, architect, Green Bay.

## GARAGES AND BARNES

*Notes arranged alphabetically by States.*

**Iowa**—Following will build garages: Mount Ayr, Ross Boudybush. Leon, Covington & Estes, remodeling. Davenport, Chas. Schiek, 2-story, \$15,000. Mason City, A. W. Harroun, 2-story modern.

**Iowa**—Following will build barns: Oakland, Leonard Pierce. Marshalltown, O. E. Welch, barn burned, loss \$10,000.

**Minnesota**—Following will build barns: Stewart, Wm. Schutt, cement. Bidmark, Adolf Bolter, Louis Boelter. Braham, Ole Forslund. Elgin, Aug. Schultz, Herman Engle, Claude Dickerman, C. F. Block, Louie Dewitz, F. L. Rollin and Frank Kelch. Park Rapids, F. E. Birch, contractor, Connor & Wilson, barn. Ashby, Hans Bye, modern. Chanhasen, J. H. Livingston, Herbert Wagner.

**Minnesota**—Following will build garages: Mankato, Lavin & Halstrom. Le Seuer Center, T. A. Pomije. Fairmont, McFadden & Allison, modern. Wabasha, Gilbert & Schmidt. Wadena, Ebner Milling Co., modern. Winona—Park Brewery Co.

**Wisconsin**—Following will build garages: Chilton, Will Van Leishout. La Crosse, Bert Van Steenwyk, modern, \$1,500.

**Wisconsin**—Following will build barns: Glenwood City, Chas. Jacobson, modern dairy. Walworth, Mrs. Mason Dickinson, W. B. Gates, contractor. North Freedom, Mr. Griswold, S. P. Ellas, contractor. Chilton, Edw. Reinkober, modern. Rice Lake, John Stoik, large, modern.

## RESIDENCES

*Notes arranged alphabetically by States.*

**Iowa**—Following will build residences: Davenport, Pat Nagel, 2-story frame, \$1,800; J. W. Dale & Sons, 2-story frame, \$3,500. Villisca, Perry Neal, 2-story modern. Williams, Thomas Cartney, modern, \$4,000; B. M. Ball. Keswick, Guy Walker. Clarion, Mrs. Jessie Smith. Nevada, W. G. Wright, Jr.; Wallace Hulse, contractor. Pocahontas, Tom Shinnon, modern. Palmer, Verne Fraser, modern.

**Iowa**—Following will build residences: Davenport—E. R. McAdam, 1½-story brick, \$2,600; Ed. Bishoff, 3 1½-story frame; H. Plath, 2-story frame; Silas Peterson, 2-story, frame \$2,500. Waukon—Chas. Carpenter, Farragut—Ben Harriman. Spencer—W. G. Swain, cement block, brick front.

**Iowa**—Following will build residences: Sibley, M. E. par-

sonage. Council Bluffs, H. L. Ward, modern, \$2,750; W. E. Swanson, modern. Brandon, Brandon M. E. church, parsonage. Wapello, Raymond Davison, modern. Little Rock, J. W. Counsell, modern, 2-story, L. W. Baumann, contractor. Buffalo Center, Ole Christenson, modern. Audubon, Simon Hanson, modern; R. G. Weiland. Bartlett, James Vanrenan, modern. Onawa, E. J. Flink, modern bungalow, \$2,200.

**Minnesota**—Following will build residences: Stewart—F. A. Loop, 5-room bungalow. Fred Kloempken, 9-room, 2-story; Frank Navara, modern; Chas. Jr. and Anton Ewert, 1½-story; John Fahse. Welcome—Wm. Greenwaldt, modern. Welcome—Geo. Lesch, modern. Fred Bohnen, cement brick. Mankato—L. Gunstrom has contract for modern house for Emil Thyse. Sherburn—John Tenhoff, cement block. Litchfield—Len Inselman. Litchfield—Chas. Lonn, modern. Blue Earth—Walter Carey, modern.

**Minnesota**—Following will build residences. Glenwood—Frank Reimers. Stillwater—Robert W. McGarry, modern. Eveleth—George Cocle, modern, Chas. Ratty, contractor. Benson—Wm. Plackner, modern. Mankato—C. M. Masters, two modern. Jordan—Otto Hafermann, frame 2-story. Raymond—Julius Rambor, modern; C. F. Gunstrom, modern. Rochester—L. L. Dansingburg. Parkers Prairie—Frank Taylor, modern, 2-story. Cambridge—F. A. Parkanner, modern concrete. Cambridge—W. H. Smith, 2 cottages. Mankato—Bids received until 2 p. m., May 9, for two houses for Peter Lloyd, S. 4th st., Geo. Pass & Son, architects, plans with architect.

**Minnesota**—Following will build residences: Hewitt, Mrs. C. A. Smith, modern. Canby, Dr. Warner. Fairmont, E. Haertel, modern. Eveleth, Jacob Jacobson. Eveleth, Geo. Cocle. Hinckley, Gust Myren. Waterville, Wm. F. Callies; E. H. Willman, modern bungalow. Worthington, Robt. Arnold, modern; Dave Anderson, modern; Mrs. M. Ferguson. Redwood Falls, Bert Hammer, modern. Middle River, Emil Peterson, modern. Roseau, Schoonover Bros. Marshall, H. P. Fulton, modern duplex. Big Fork, Harry Horton.

**Minnesota**—Following will build residences: Clinton, Dad Stephens, modern; E. G. Dalseth, contractor. Kiester, Albert Peterson. Walnut Grove, Kasper Dahlgren. Graceville, Dr. W. H. Strong, 2-story modern. Holt, A. H. Huseeth, modern. Marshall, W. W. Gray and Dr. Hard, modern. Sleepy Eye, Mrs. John Klobe, modern; Martin Casperon, contractor, \$3,500. Hewitt, E. F. Lowe, modern bungalow. Hayfield, John Wall, modern. Edgerton, Isaac Steenhoven. Tracy, Henry Thompson, cement, modern. Redwood Falls, Dr. Ingelid, modern; E. Makke. Sr., contractor. Northfield, G. T. Haugen. Adams, T. A. Bagstad, modern. Adams, E. E. Rudlong, modern. Moorhead, Mrs. Karen Helland, modern. Janesville, Chas. Born. Blue Earth, Adolph Eberlein, modern, \$5,000.

**North Dakota**—Following will build residences: Cayuna—Chas. Swiden, modern. Sherbrook—Ed. Erickson, modern.

**North Dakota**—Following will build residences: Wahpeton, Dietz Bros., contractors, Fred Radhke. Sheldon, John Caine, modern.

**North Dakota**—Following will build residences: Fillmore—J. E. Smith, modern. Bismarck—Frank E. Titus, modern bungalow.

**South Dakota**—Following will build residences: Elk Point, Marcus Silverberg, modern. Hecla, F. W. Herther, modern; H. W. Guild, modern. Brookings, S. A. M. Elmurry, I. H. Button, Prof. Champlin, O. E. Boyum, Prof. Bates, R. A. Palmer, W. S. Irish, Dr. A. A. Harris, modern.

**South Dakota**—Following will build residences: Brookings—Dr. Foster, Dr. Stoll, C. O. Quail, Mrs. Nelson, Guy Fowler, E. Z. Poole, A. J. Dokken, Arthur Martin, R. Matheny, John Swenchart, Louis Johnson, Ellsworth McCarl, W. H. Harvey, Knute Steen, Will Sayre, W. S. Irish, Prof. Mair, H. Usletten, parsonages by Presbyterian and M. E. and Baptist churches.

**Wisconsin**—Following will build residences: Marshfield—St. Alban's Episcopal church will build a parish house; cost \$12,000. Eau Claire—E. A. Carroll, modern. Waukesha—Theo. H. Harvey, modern. Clifton—Conductor Ray Dodge, tenant house on James Rissue farm, Samuel McDonald, contractor.

**Wisconsin**—Following will build residences. Madison—Zonne N. Anderson, 1-story bungalow, \$2,000. Bagley—Wm. Remey. Madison—Fred Hanson, 2 modern, \$2,000; J. A. Newlin, 2-story, modern, \$3,500. Marshfield—St. Albans will build parish house, \$12,000. Durand—St. Joseph's Catholic parsonage burned; loss \$3,000.

**Wisconsin**—Following will build residences: New Richmond—Edward Evans, bungalow. DePere—Leo. Zelter, has contract for St. Mary's parsonage. Chippewa Falls—Wm. A. Langill, modern. Antigo—Daniel David, house burned, loss \$3,000. Durand—Parsonage of St. Joseph's burned; loss \$3,000.



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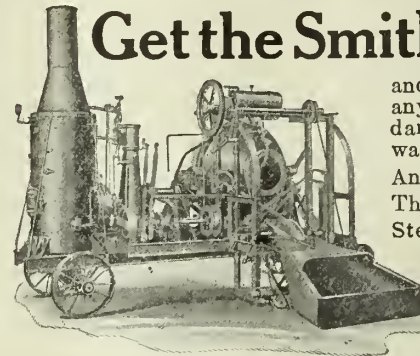
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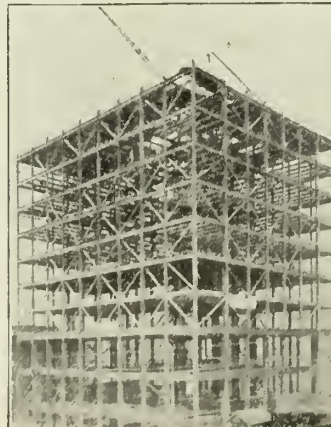


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Mantorville Stone Co., Mantorville, Minn.  
New Ulm Stone Co., New Ulm, Minn.  
Pioneer Granite Co., St. Cloud, Minn.  
Sauk Rapids Granite Co., Sauk Rapids, Minn.  
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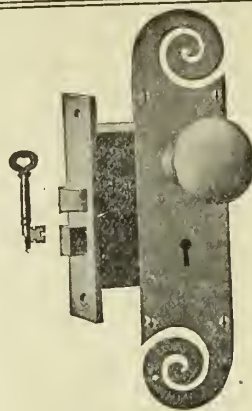
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# The IMPROVEMENT BULLETIN

OFFICIAL ORGAN OF THE MINNESOTA STATE ASSOCIATION OF BUILDERS EXCHANGES

VOLUME XLVII.

SATURDAY, MAY 16, 1914

NUMBER 24

## EDITORIAL

O. L. COLBURN, Editor

### DEFINITE SPECIFICATIONS.

In a recent editorial on the subject of definite specifications. The Pacific Coast Architect indorses the idea and says: "Using the words 'or equal,' if more than one brand of article is to be used, is not sufficient unless he stipulates what that 'equal' is. An architect employed for the drawings and executing of plans, specifications, etc., does not discharge his duty if his specifications lack in definiteness; that is, if such terms as "or equal" are used such lack of definiteness then occurs. If an architect agrees that a material or its "equal" be permitted to enter a structure, it tends to the substitution, and cheapens construction, weakens the completed structure which sometimes is soon in need of repairs, or is in a few years condemned."

"Or equal" does not mean, in the architect's mind "or something." We have been meeting architects frequently for some years and we have heard them insist in all instances when the question has arisen, that "or equal" means exactly that,—something just as good; and not "something else," or "about the same." It cannot cheapen construction if adhered to and the architect of character has no intention at all of cheapening construction. He simply intends to admit a little liberality, or show it, towards the material men. It is entirely possible for an architect to maintain all standards of his profession and safeguard his client in all instances while using "or equal" in the specifications. It places on him the responsibility of knowing that it is equal. When architects know there is an equal they have no objection to saying so.

### ARCHITECTS FROM THE OWNER'S VIEWPOINT.

In a recent conversation with a man who has spent a very large sum on one modern downtown building, of much detail, he asked us to try to realize the position to an investor, trying to choose an architect, after deciding to erect a structure of high cost. "Imagine," he said, "a man who is not acquainted by experience or otherwise with any architect. He has reached the point where he needs one, and is to spend through his guidance, from \$600,000, \$800,000, or \$1,000,000. How is this investor to find which architect he would better engage? He wants the man or firm who knows best how to build say, a theater, or hotel, or office building. He wants the man of the best character so that there will be no needless waste of money. He wants the man of the most complete knowledge of practical details, anyhow, whether he has artistic taste or not. Such a man knows what he is about in avoiding blunders and watching the construction. There is where the shoe pinches. The strong man on the stern facts of the building is the man the large investor wants. Then, of course, he wants a good design, an attractive exterior. Which way shall the owner seeking such an architect for a big structure turn? How shall he select?"

These are leading, pointed questions. They reveal the other side, to the architect and builder. Each side has its rights. Naturally the architect who has built a theater or two, which are satisfactory or better to all immediately concerned, would have an advantage in the mind of a prospective investor in a new theater seeking plans. But an able architect is prepared to meet all demands, to successfully solve the problems presented by the opportunities of his profession. As a man of character he is trustworthy. He will give good results at the least reasonable cost. The investor, then should either find out the architect of experience, who can show his instances and refer to their owners, or choose the architect who has proved his ability and established the fact that he has practical knowledge, general equipment and character. A prospective investor in a costly hotel can call into consultation a man who has had such a structure built. The guides for the investor are reason, sense and the personal and professional reputations of the architect.

### ELECTRICAL DEVELOPMENT IN NEBRASKA.

Montana is not the only western state which is attracting attention with rapid progress of electrical development. Hydro-electric power opportunities in Nebraska are receiving a great deal of attention and one important result has just been announced, the first big project this year. Estimates of a hydro-electric plant that will carry current for power and lighting to a score or more of central Nebraska towns and that will revolutionize business in that section of the state if the plan goes through, have been filed with the Nebraska railway commission. The company developing the scheme is the Southern Nebraska Power Co. of Superior, lately known as the Guthrie Co. It has been incorporated with a \$300,000 capitalization. Application was made to the commission for a stock issue of \$100,000 and bond issue aggregating \$200,000.

Under proposed plans initial lead lines will be run to Harvard and Sutton, to Red Cloud and to Fairmont by way of Chester. Later on it is not improbable that Hastings and Grand Island will profit by the sale of current. The current will be generated by a plant on the Republican river.

The chief lines will entail the expenditure of \$36,236 exclusive of right-of-way that will have to be purchased, in all likelihood, for transmission lines. Local branches will be constructed at various towns, these costing according to the estimates as follows: Guide Rock, \$734; Nelson, \$433; Edgar \$2,327; Fairfield, \$1,148; Clay Center, \$257; Harvard, \$1,148; Sutton, \$6,107; Hardy, \$433; Byron, \$433; Chester, \$433; Hebron, \$716; Belvidere, \$1,634; Carleton, \$1,861; Strang and Shickley, \$3,247; Geneva, \$716 and Fairmont, \$433.

### NEW CEMENT ERA ON THE RANGE.

E. F. Chapin, Jr., of the Universal Portland Cement Co. of Chicago, has been making a tour of the Iron Range territory of Minnesota in the interests of the company. Mr. Chapin is slated to become sales manager of the large plant of the Universal company, now in process of construction in Duluth in conjunction with the steel plant being erected by the United States Steel Corporation. The benefits which St. Louis county will derive from this plant can only be surmised, but it is safe to predict that with the agitation for good roads only commenced the day is not far off when all the leading highways of St. Louis county will be of concrete. The part that Portland cement will play in road building will therefore be a most important one.

The plant which the Universal company is erecting in Duluth is designed to be the most modern and best equipped in the world. When in working order it will produce at the rate of four thousand barrels per day or in round numbers about a million and a half barrels a year. The slag run out from the blast furnaces of the steel plant when the furnaces are tapped is the by-product of the iron and steel industry which furnishes the commercial Portland cement. Added to the clay, silica, iron oxides, magnesia and sulphuric acid of the slag is a percentage of about sixty of lime. The limestone necessary in manufacture of the cement will be received from desposits in Michigan.

The method of manufacture of cement planned will be peculiar to the Duluth plant and is about the height of perfection in the manufacture of this important produce. The mass red hot is run out of the furnaces and is chilled by water which forms small granules of matter. These small granules make up the commercial Portland cement.

At the present time, all iron ore mined by the United States Steel corporation on the ranges is freighted down the lakes to furnaces at Chicago, Pittsburgh, and Gary, Ind., and the slag, an incidental product in the manufacture of iron and steel would be made into cement in plants adjacent to the furnaces. After the completion of the Duluth steel and cement plants a large percentage of the Mesaba range ores will undergo their entire process of manufacture into iron and steel with their by-products in these mammoth works. The most modern machinery known is being erected in the cement works and when entirely done, service little dreamed of a few years ago will be the order of things.



# MINNESOTA STATE ASSOCIATION of BUILDERS EXCHANGES

COMPOSED of 700 LEADING BUILDERS, CONTRACTORS AND MANUFACTURERS OF MINNESOTA

President	
H. M. Gardner	Minneapolis
Gardner Hardware Co.	
First Vice President	
F. J. Romer	St. Paul
Second Vice President	
E. J. Zauft	Duluth, Minn.

Third Vice President	
O. H. Olson	Stillwater, Minn.
Fourth Vice President	
W. S. Kingsley	Faribault, Minn.

Fifth Vice President	
Olaf Swendson	St. Paul Minn.
Secretary and Treasurer	
Eugene Young	Minneapolis
Care Builders' Exchange	

Executive Committee	
James Leck	Minneapolis
F. J. Nixon	Duluth
J. A. Roberts	St. Paul
Fred Lammers	Stillwater
Jas. O'Neil	Faribault

THE IMPROVEMENT BULLETIN IS THE OFFICIAL JOURNAL OF THIS ORGANIZATION

## SPECIFICATION REMINDER.

The Minnesota State Association of Builders' Exchanges have prepared the following set of suggestions for securing uniformity in plans and specifications, and recommend that architects throughout the state follow these suggestions. They hope thus to make it easier for contractors to give a just estimate, as they would not need allow so large a margin to cover possible misunderstanding of the plans. Also, it would result in the doing away with some obscurity and possibility of misunderstanding:

First—That specifications be indexed and divided into numbered paragraphs covering the various lines of material entering into the construction of buildings, with sub-headings of the various parts, so that each material man or sub-contractor may find his special part of the building clearly defined under its own heading. To assist the architects in getting results we have prepared a schedule, which we enclose, of headings and sub-headings and recommend its general use.

Second—That floor plans or elevations be drawn at not less than 1/4-inch scale.

Third—That each set of plans have, when estimates are called for, scale drawings of interior fixtures, such as stairs, wainscoting, mantels, bookcases, linen cupboards, kitchen and pantry fixtures, etc.

Fourth—That each set of plans have, when estimates are called for, at least one sheet of details drawn at not less than 3/4-inch scale, showing stone, metal, terra cotta, or wood cornice, porch work, frames, interior finish, cut stone, etc.

Fifth—That the size of glass be marked on plans or elevations for all outside windows and transoms and for all partition sash and transoms.

Sixth—That the size of brick openings be marked on plans or elevations.

Seventh—That the kind of wood for each room be well defined in the specifications or on the floor plans.

Eighth—That the plans indicate the various parts that are brick, cement, stone, artificial stone, terra cotta, slate, marble, glass, metal, wood, etc.

Ninth—That piping plans distinguish heating, refrigerating and water pipes for covering.

Tenth—That finishing hardware be reserved for the owner to select and pay for.

Eleventh—That leaded and ornamental glass be reserved for the owner to select and pay for, or that the price per square foot be stated in the specifications.

Twelfth—That gas and electric fixtures be reserved for the owner to select and pay for.

Thirteenth—That specifications should not contain clause requiring contractors, at their own expense, to furnish labor or material not shown on plans or called for in specifications.

Fourteenth—That in order that further uniformity might prevail it is requested that the symbols prepared by the standardization committee of the Minneapolis Architectural Club and sent to the architects by that association, be generally used.

In addition they prepared a very complete, classified specification reminder, which may be obtained on application, and seems to cover all possible conditions. This is not new, but it seems of sufficient interest to bring to the attention of architects who may not have seen it before.

## PLANS AT BUILDERS' EXCHANGE, MINNEAPOLIS.

Plans on file May 11, 1914, at Minneapolis Builders' Exchange: Bank, Plentywood, Mont., bids open May 11; school, Dahlen, N. D., bids open May 11; ladies' gymnasium, University of Minnesota, bids open May 18; ladies' gymnasium, University of Minnesota, mechanical equipment, bids open May 18; St. Anthony Park Church, bids open May 12; hotel, Sioux Falls, S. D., bids open May 12; store, Campbell, Minn., bids open May 13; boiler, etc., hospital, Willmar, Minn., bids open May 14; city hospital, Menomonie, Wis., bids open May 14; church, Crookston, Minn., bids open May 14; children's hospital, Phalen Park, Minn., bids open May 15; children's hospital, Phalen Park, Minn., mechanical equipment, bids open May 15; manual training building, Eveleth, Minn., bids open May 15; school, Lidgerwood, N. D., bids open May 15; high school addition, Oconto Falls, Wis., bids open May 18; school, Bathgate, N. D., bids open May 18; church, Watertown, S. D., bids open May 18; store, Woonsocket, S. D., bids open May 19; armory, New Ulm, Minn., bids open May 20; hotel, Fergus Falls, Minn., (heating and ventilating), bids open May 20; school, Sioux Falls, S. D., bids open May 21; hospital, Rosebud, N. D., bids open May 21; hospital, Standing Rock, N. D., bids open May 21; hospital, Cheyenne, N. D., bids open May 21; school, Le Sueur Center, Minn., heating, ventilating and plumbing, bids open May 22; church, Pla'o, Minn., bids open May 22; school, Maddock, N. D., bids open May 25; church, Edgeley, N. D., bids open May 25; rewiring state normal school, Mayville, N. D., bids open May 29; high school, New England, N. D., bids open May 30; court house, Ashland, Wis., bids open June 1; postoffice, Lake City, Minn., bids open June 10; school, Sherburn, Minn., heating and ventilating; town hall, Weyburn, Sask.; brick building, Carthage, S. D.; Masonic Temple, Howard, S. D.; residence, Watertown, S. D.; store, Bemidji, Minn.; banks, Geraldine, Winnifred and Roy, Mont.; hospital, heating and plumbing, Watertown, S. D.

Bids in: Postoffice, Wahpeton, N. D.; theater, Sauk Center, Minn.; church addition, Fairfax, Minn.; bank, Shakopee, Minn.

Contracts awarded: Masonic Temple, Watertown, S. D.,

Gray Construction Co., Watertown; church, Dawson, Minn., A. Bjoraas, Chippewa Falls, Wis.; school, Wilmot, S. D., Gray Construction Co., Watertown; school, Wilmot, S. D., heating and plumbing, Cole & Work, Redfield, S. D.; school, Ardock, N. D., K. C. Hunter, Grand Forks.

## ARCHITECTURAL ACOUSTICS.

We are apt to think of the subject of architectural acoustics as a comparatively new one, but upon a little investigation we find that its history began centuries ago, long before that of many of the more perfectly developed sciences which we now regard as venerable.

Modern writers seem fond of classifying the subject with the so-called "lost arts," and numerous articles and references may be found claiming that the Greeks were once masters of the science. Some of these statements are backed by the results of special investigations of the old ruins and the logical conclusions drawn therefrom, but in all cases known to the writer these arguments, however logical and however closely knitted in their association of ideas, contain some oversight of the well established laws of physics, and with all due regard to the sagacity of that wonderful people it remains yet to be proven that the Greeks were ever in possession of more than an intuitive knowledge of the science of acoustics.

If such a statement is to carry any degree of conviction we must give some attention to the reasons behind it, but in so doing we would be compelled to make other statements not yet proven, so for the present let us leave the question to be answered by implication in the remained of the paper, remembering that if the science of acoustics is proven to be passed up on the "Laws of Motion" and "The law of the conservation and interchangeability of energy," and those alone, we may then rightfully pass the burden of proof to those who would maintain that the Greeks were familiar with these laws and that they themselves belong to the lost art class and were merely rediscovered by such men as Galileo, Newton, Joule and Helmholtz in modern times.

These laws are the basis of all engineering design and





#### BUILDERS BUILD UP CIVIC & COMMERCE ASSOCIATION MEMBERSHIP.

Results show that the selection of H. M. Gardner, of the Gardner Hardware Co., former president of the Minneapolis Builders' Exchange, and present head of the Minnesota State Association of Builders' Exchanges, to head the Membership Committee of the Civic & Commerce Association was a wise, progressive act. Chairman Gardner planned a campaign for five hundred new members this year and turned to his associates of the Builders' Exchange for live wires to aid him. He organized two flying columns. The Reds and the Blues, and selected captains. O. E. Deckert, lumber dealer, got the Reds and A. S. Hedborg, of Jas. Leck & Co., general contractors, and one of the active leaders of the Builders' Club got the Blues. Mr. Gardner himself was one of the liveliest workers in his campaign. The Reds and Blues took on a big ammunition supply of application blanks and went forth determined to win. Only two weeks were allotted for the work. At the end of that period, Chairman Gardner called a meeting and the Reds turned in one hundred sixty-five applications; the Blues, one hundred thirty-nine. This brought the total under Mr. Gardner's chairmanship to date, up to six hundred and four. The Civic & Commerce Association bulletin refers to this campaign as "brilliant," and notes the excellent records made by officers and privates.

The Reds: R. A. Gamble, J. W. Goodwin, J. D. Shearer, J. B. Sutherland, F. W. Teasdale, L. F. Blyer, F. W. Greaves, F. T. Bohen, J. B. Moffett, C. M. Rawitzer and C. P. Tracy under the command of Captain O. E. Deckert; the other the blue team composed of C. A. Greenwood, R. L. Cobb, J. M. Harrison, C. L. Chase, Chas. Houston, T. J. Skellet, E. V. Clark, R. C. Thompson, F. E. Mix, G. H. Filbert and E. F. Macgowan, commanded by Captain A. S. Hedborg.

Frank W. Teasdale, of the Landers-Morrison-Christensen Co., building material, Lumber Exchange, presented the highest individual score and R. L. Cobb was high private of the blue team. The committee reported that there were many fine prospects they missed just because of lack of time and wanted it understood that they have not disbanded but are lying on their arms.

At the close of the campaign President Fiske entertained the committee at a dinner at the Hotel Radisson and in appreciation of the work done presented each captain and the private on each team having the highest score with scarfpins. The blue team graciously acknowledged defeat by presenting Captain Deckert and Private Teasdale with beautiful tin loving cups suitably engraved.

#### TWIN CITY BRICK AT WOMAN'S EXHIBITION.

One of the most interesting exhibits at the armory, beginning Monday May 18, will be made by the Twin City Brick Co. The attraction of the week is called the Woman's Exhibition, but it happens that woman presides over the home and so the home department comes into the scope of the show. Believing that the best homes are built of brick, the Twin City Brick Co. will place on view its notable variety of this standard material. There will be other exhibits in the home department which, as a collection, will surprise the visitors who expect something more within the ordinary limits of a fashion show. Possibly kitchen equipment—but no—who could be so cruel as to remind women of the kitchen at a fashion show?

#### GETS LARGEST TERRA COTTA CONTRACT.

The largest terra cotta contract ever awarded in the Twin Cities, for the 20-story First National Bank-Soo Line office building, Minneapolis, has been awarded to the Northwestern Terra Cotta Co., K. F. Lott Co., northwestern agent, Minneapolis and St. Paul; R. W. Gibson, architect, N. Y.; Thompson-Starrett Co., contractors, Chicago. The N. W. Terra Cotta Co. also has added to its long list of contracts secured during the last year on this section, the following: terra cotta for cottages 8 and 9, state asylum, Anoka, Minn.; Wm. O'Neill & Son Co., contractors; terra cotta, Hamm Brewing Co. building, 4th and Robert, St. Paul, Alden & Harris, architects, St. Paul.

practice and of all scientific physical research. In all problems involving their principles we must start with them in reasoning from the known to the unknown and their application to literature on the subject of acoustics is a safe and sure test of what should be accepted and what should be rejected. A more or less disregard for these laws, or perhaps in some cases an ignorance of them, has led to a common treatment of the subject of acoustics as a problem filled with unexplainable mysteries only to be approached by those versed in a half supernatural power, much as the problems of legerdemain, witchcraft and spiritualism are supposed to be approached.

Such an attitude has left the science undeveloped through ages and it is to Professor Sabine of Harvard university that we now owe the present rational method of attacking the problem. The superstitious element has vanished; there are no more mysteries; the stretched wires, the empty beer bottles, the unnailed sheathing, the roughened plaster, and the draped chandeliers, are no longer offered upon the altar to appease the wicked god of auditory disturbance.

In place of these we are turned to old familiar laws of universal application and a few mathematical formulae so simple and easily understood in their handling that it makes little difference whether or not we are able to derive them for ourselves.

A review of these natural laws may not be out of place here, even though they be so well and universally established, for they are many faced laws and our recognition of them often depends upon the angle by which they are approached. Newton has given us the laws of motion in three postulates, as follows:

First. Every body (particle) continues in its state of rest or uniform motion in a straight line, except in so far as it may be compelled by external force to change that state.

Second. Change of motion is proportional to the impressed force and takes place in the direction of the straight line in which the force is impressed.

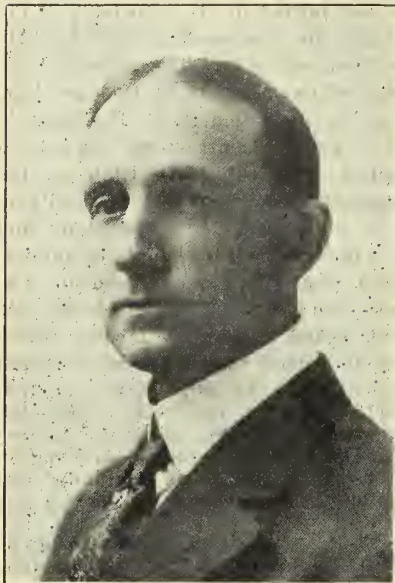
Third. To every force there is a corresponding force equal in magnitude and opposite in direction.—John T. Vawter, architect, in Los Angeles Builder & Contractor.



# PERSONAL AND GENERAL NEWS.

Doings of the Northwest this Week Boiled Down for Busy Readers

Recent important changes and improvements in the granite industry of Sauk Rapids were mentioned in this column last week. C. C. Dragoo, who managed the Sauk Rapids Granite Co. successfully, is retained as manager of the new company which has taken over the business of the Sauk Rapids Granite Co., and the Western Granite Co.



C. C. Dragoo.

Geo. W. Bestor, who is president of the new organization, was president of the Kettle River Quarries Co. for fifteen years. He is a resident of Minneapolis. Mr. Dragoo, as vice-president and manager of the Sauk Rapids Granite Co., will have five quarries: dark red quarry, dark gray quarry, crushed rock quarry, white granite quarry. It is planned to open a new white quarry at once. Mr. Bestor in an interview said: "I have been familiar with the St. Cloud granite district for the past

twenty years, but I have never entered it for the reason that up to this time I have never found just what I wanted. I have now found the quarries, the location, the physical plant and all the conditions that I believe are susceptible of being developed into a large enterprise."

The Efficiency Metal Products Co., Inc., 220 W. 42d st., New York City have purchased the patents, copyrights and business of the former owners of the hollow metal shelving, generally known as the automatic ice saver for use in family and commercial refrigerators, ice-boxes, refrigerator and dining cars, yachts, boats, ships, etc., and are preparing to fill the demand for these goods, which it is said the former owners were never in a position to keep up with, owing to the lack of proper manufacturing facilities.

Evidences of Minot, N. D., brisk building season this spring, include: The federal building, costing \$200,000, St. Joseph hospital, \$115,000; Standard Oil Co. building, \$40,000; ward school building, \$45,000; steel and concrete viaduct, \$50,000; opera house, \$35,000; cold storage plant, \$15,000; added story to the Leland hotel, \$20,000; other large construction projects either already under way or contracted for. In addition to these about \$100,000 will be expended for new dwellings.

Carlson & Sandquist contractors, have removed to 924 Raymond av., St. Paul, from Hudson, Wis.

St. Paul was conspicuous among the cities showing a gain in construction for the first four months of 1914 over 1913, the percentage reaching 75 while Minneapolis showed a 42 per cent gain; according to statistics in the American Contractor. April building totals from 77 cities published by Construction News, show, in general, a moderate decrease, compared with the great building activity of recent years. Minneapolis public work for this year totals \$3,000,000, as follows: new bridges \$865,000; new paving, \$750,000; new sewers \$680,000; filtration, \$200,000; water works, \$150,000; sidewalks \$150,000; good roads \$100,000; curb and gutter, \$100,000; harbor wall \$65,000.

Wahpeton, N. D. has a dwelling famine. A report says that the usual scarcity has become a crying necessity.

John Nolan, Duluth, J. T. Kenny, Duluth, and E. J. Kenny, Duluth, have incorporated the Nolan Construction Co., capital \$50,000.

Charles M. Lefler, a South Omaha contractor, is installing a \$25,000 sewer system at Howard, S. D.

A. R. Coffeen, contractor, Decorah, Iowa, is building the new hospital there, and will have roof on June 1; the Monona State Bank and the Pierce hotel at Calmar also are among his present contracts.

Willard C. Pike of the Pike & Cook Co., contractors, Minneapolis, died Sunday aged 70. He has been ill a year. He and George Cook started the contracting business of Pike & Cook in 1883. His wife survives him. Mr. Pike personally attended to the erection of some of Minneapolis' largest buildings by his firm, including the Andrus building, the library building at the university, the Soo Line office building, the McKnight building, St. Mark's church, and the work on the new Hennepin Avenue Methodist church started.

Building managers of Minneapolis will attend the seventh annual national convention, July 14-17, in Duluth. The Spalding hotel will be headquarters. Efficiency in office buildings, apartment buildings, office building bonds, income tax law, fire prevention, workmen's compensation, and the valuation of properties are among the subjects to be discussed.

New government buildings in Iowa provided for by the act of 1913 include: Carroll, \$70,000; Cedar Falls, \$95,000; Chariton, \$70,000; Cherokee, \$70,000; Glenwood, \$50,000; Vinton, \$70,000. Grounds for future postoffice buildings will be purchased in the following cities: Albia, Fairfield, Marengo, Newton, Oelwein. Appropriations to supply these cities with buildings will probably be made this year: Algona, Anamosa, Cresco, Eagle Grove, Hampton, Harlan, Independence, Indianola, Manchester, Marion, Mount Pleasant, Pella, Sheldon Spencer, Waverly and Winterset.

The Nelson Brick & Tile Co. will reopen the brick and tile plant west of Albert Lea, Minn., with H. A. Nelson, Rolfe, Iowa, in charge.

J. S. Lofberg has started a cement plant at Grand Rapids, Minn., and contracted to furnish 2,000 blocks at Deer River.

Jaeger & Heiss have engaged in concrete construction at Glenwood City, Wis., and bought the E. E. Stuart plant. A. W. Jaeger and John Heiss, Jr., compose the firm.

C. W. Smith has begun the season's operation of the Grey Eagle, Minn., brick yards, with numerous contracts.

Construction of the Northern Briquetting Co., brick plant at Minot, S. D., is proceeding.

Contractor George May of Sioux City, Iowa, announces that the Iowa Electrical Contractors' association will hold its fall meetings at Sioux City the second week in October, and boost for a joint gathering at Sioux City in 1916 of the Iowa Electric Light association, Iowa Street Railway association, and the Electrical Contractors' association. Mr. May will attend the national convention of Electrical Contractors in July at Detroit.

Libby, Mont., is having a spring building boom. Many dwellings are being built. Hoffman & Kienitz are erecting an opera house; business buildings are going up; Libby Lumber Co. is enlarging its mill.

J. M. Price, formerly at Bemidji, is now in the contracting business at Bergville and Grand Rapids, Minn., with his sons as J. M. Price & Sons.

W. H. Crowell, Charles A. Russell and L. C. Smith, all of Brainerd have incorporated the Brainerd Sash & Door Co.

The Langlade Granite, Stone & Marble Works is a new concern at Antigo, Wis., A. L. Vedner is manager.

Nels Erickson, well known concrete machinery man, has within the last sixty days broken his own records for daily and weekly sales of concrete mixers. On Monday, May 11, he sold six concrete mixers as follows: Two Bronchos to Butler Coons Co., Duluth; one Boss to Nortz Lumber Co., Breckenridge, Minn.; one Boss to Armin & Walton, Casselwood, S. D.; one No. 9 Caltrin to Funk & Funk, Groton, S. D., and one No. 9 Caltrin to Jno. A. Johnson of Minneapolis. His record of sales for one week is thirteen.

## NEW INCORPORATIONS.

WIS., SHEBOYGAN—Chas A. Honold Co., plumbing and heating, \$25,000.

IOWA, VARINA—Farmers' Co-operative Supply Co., C. F. Porath, president; capital \$10,000.

WIS., MILWAUKEE—Excelsior Mixer & Machinery Co., \$25,000.

WIS., BLACK RIVER FALLS—Weyher Wagon Works, \$25,000.

IOWA, DAVENPORT—D. E. Keeler Co., general engineering, \$25,000.

## ARCHITECTS AND ENGINEERS.

Holds three positions—Henry J. Olk of Antigo, Wis., has been elected by the council to the positions of city engineer,



street commissioner and superintendent of the water works; salary for all three, \$1,200 a year.

Everett Greene, Buffalo, N. Y., armory architect, has been conferring with the Armory Building Co., Mason City, Iowa, regarding armory there.

Burns & McDonnell, consulting engineers of Kansas City, and others are interested in the choice of engineers for preparing the plans for the proposed joint water supply for

Prof. Frederick Mann, head of the school of architecture, state university, Minneapolis, has opened an office for practicing architecture in one of the new suites of the enlarged McKnight building, Minneapolis, No. 744. In the connecting suite is A. R. Van Dyck, architect, who has much larger and handsomer quarters than formerly in the older portion of the building. Mr. Van Dyck's number is 742.

More than 150 designs for the Detroit memorial fountain were submitted in the competition, recently finished. Ten are in the final competition, including those of Cram & Ferguson, Jacobi, Guy Lowell, Palmer, Hornblad & Jones, McKim, Mead & White; Cass Gilbert, Carriere & Hastings.

J. W. Trafzer, architect, Mason City, Iowa, was in the Twin Cities this week. Mr. Trafzer has an unusually large number of commissions this spring. Chisholm, Buhl and Hibbing, Minn. The firm has planned work at Eveleth and Virginia.

F. H. Ellerbe, architect, St. Paul, was in Graceville, Minn., recently to inspect the site for the public library.

F. H. Kemp, architect, Beloit, is supervising two schools at Portage, Wis.

Charles L. Pillsbury, consulting engineer, Minneapolis, engaged by several cities of late in appraising public utility plants, has been retained by the United States to take charge of some valuation work at Washington, D. C.

William B. Ittner, architect, St. Louis, last week was awarded the first medal given by the St. Louis Chapter of the American Institute of Architects since its foundation in 1887. The bestowal was in recognition of his work in development of modern school buildings. Mr. Ittner is the architect of the new Central High, Minneapolis.

The Medal is of bronze and has in strong relief the head of Michel Angelo. It has been said by architects that Ittner originated a type of school building that has been copied throughout the world. He is at present building a \$1,000,000 high school in Washington, D. C., and, in the course of his sixteen years' service as commissioner for the board of education, developed the style of school buildings that has made St. Louis schools notable.

City Engineer John Wilson of Duluth, and O. E. Brownell, assistant, are making thorough observation of frost and traffic effects on the various pavements of the city.

Milton Rogers Williams, Omaha, who graduated with honors at Cornell university school of architecture last June, and has been in a New York architect's office, has been engaged in the office of John Russell Pope, one of the twelve asked to compete in designs for the great marble Washington memorial building at Washington.

Mankato, Minn., architects continue busy. H. C. Gerlach is preparing plans for the Catholic church of St. Clair, a brick, modern edifice; also for a brick garage for Emil Pomoje, Le Sueur. Albert Schippel is busy with residences, an armory at New Ulm, and churches, including the church at Plato, Minn. Geo. Pass & Son, planned the Fairmont armory, for which Erick Carlstrom, Mankato, got the general at \$14,372; also furnished plans for a \$5,000 residence at Mapleton, Minn., for B. F. McGregor.

Capt. G. W. Freeman, U. S. engineer in charge of the high dam, Minneapolis, found that a recent rise of two feet in the Mississippi increased the cofferdam pressure so much that he ordered water let between the cofferdam and dam proper and laid off 80 men.

A. C. Remley has succeeded C. H. Vinal as city engineer of Appleton, Wis. Mr. Remley was instructor in engineering at Lawrence college.

H. G. Lykken, until recently city engineer of Grand Forks, may open an office in Grand Forks.

Robert B. Stacy-Judd of London, Eng., and Rose Cottage, Isle of Wight, an architect and landscape artist, has arrived in Minot, N. D., and is at present with R. T. Frost, architect. Mr. Stacy-Judd in 1907 had charge of the Franco-British exposition at London. Later he was director of the flower carnival at Ventnor, Isle of Wight. This is an annual event and is one of the most noted of festivals in all Europe.

#### NEWS NOTE OF THE JUNE CENTURY.

What the Scandinavians have contributed to America will be described in the June Century in a paper by the authority on immigration, Professor Edward A. Ross, who, in a series in that magazine, has been taking up the various nationali-

ties that make the American race. As Professor Ross is a member of the faculty of the University of Wisconsin, he is probably even more familiar with the Scandinavians, who preponderate in that part of the country, than with any other nationality.

#### HY-TEX IN DEMAND.

E. S. Cobb, sales manager of the Hydraulic Press Brick Co., Minneapolis, reports a few of the recent sales of Hy-tex, this company's famous product:

Hy-tex No. 5 red sand mold veneers ordered for government postoffice at Douglas, Wyoming.

Hy-tex No. 6 red sand mold veneers being furnished for Ramsey county almshouse, St. Paul, Minn.

Hy-tex red sand mold veneers being furnished for addition to Wm. Penn school, Minneapolis.

Hy-tex gray mats being furnished for Judson Memorial church, Minneapolis.

Hy-tex colonials and Coon Creek brick being furnished for C. W. Briggs' flat, James and Lagoon avs. S., Minneapolis.

#### WILL HAVE ANDREWS HEATING.

The Andrews Heating Co. are working on heating plants for the following parties: W. H. Handy, Ottawa, Ohio; R. Salisbury, Minneapolis, Minn.; M. K. Klemesrud, McVie, N. D.; C. W. Laird, Laurel, Mont.; R. D. Schultz, Ambrose, N. D.; E. M. Haynes, Mineral Ridge, Ohio; C. M. Robinson, Minneapolis, Minn.; August Voerne, Toledo, Ohio; J. H. Potter, Prosper, N. D.; C. J. Carlson, Minneapolis, Minn.; F. E. Snider, Sherwood, N. D.; R. H. Hall, Columbia, Mo.

#### SPRING OUTLOOK IN JAMESTOWN, N. D.

The 1914 building season in Jamestown promises to be a lively one, for in addition to the buildings already under way at the state asylum and in the city a number of new building enterprises have been decided upon and plans and specifications made. Architect Horton and the J. Schelde Co. have been busy all winter getting out plans.

Plans have been prepared for the new Masonic Temple. While the plans have been considered by the building committee no final action has been taken as yet, and a further conference of all concerned will be had soon to definitely decide the matter.

A new creamery building will be constructed by Schelde & Co. for the Sanitary Creamery Co., with brick walls, cement floor, complete creamery equipment; ice house will be added later on, and plenty of refrigeration. Building was started recently.

The Northern Auto Co. have accepted plans for extensive improvements to be made at the garage on 4th av. S. The present 1-story, cement building used for a garage and office will be raised to two stories and an entire new entrance and front added; plate glass windows. It will be pressed brick front with ornamental glass; electric elevator. Schelde & Co. have contracts for this work which will be begun as soon as possible.

Plans have been accepted by Carl Lindberg for a new brick dwelling house on 4th av. N. and 5th st. This house will be of six or seven rooms, and modern in every way.

John Stoddard has also plans drawn and will build a 7-room house; frame with complete modern equipment, on the North Side, in the vicinity of the school house.

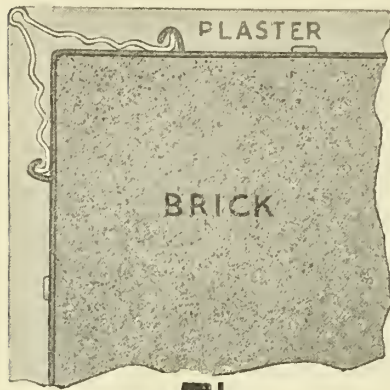
A. D. Grant is planning an addition of fifty-eight feet two stories high, for an extension to the store room property on 5th av. The entire second story will be remodeled into flats, the plan calling for two 2-room flats, with bath and kitchenette, and one 3-room flat with bath and kitchenette.

#### GREAT FALLS, MONTANA.

The following is a list of buildings to be erected at Great Falls, Mont., this spring and summer and an approximate estimate as to their cost:

Masonic Temple .....	\$85,000
R. M. Fire Insurance Co. building.....	175,000
Strain Brothers .....	200,000
City Market .....	40,000
Sexton-Lloyd block .....	75,000
Milwaukee depot .....	250,000
Lindsay Fruit Co., extension.....	45,000
Stone-Ordean-Wells .....	45,000
Heisey & Co.....	45,000
American Brewing Co.....	150,000
Federal Building addition.....	100,000
Baum & Trinastich .....	30,000
Fagenstrom Brothers .....	30,000
Boyd Brothers .....	30,000

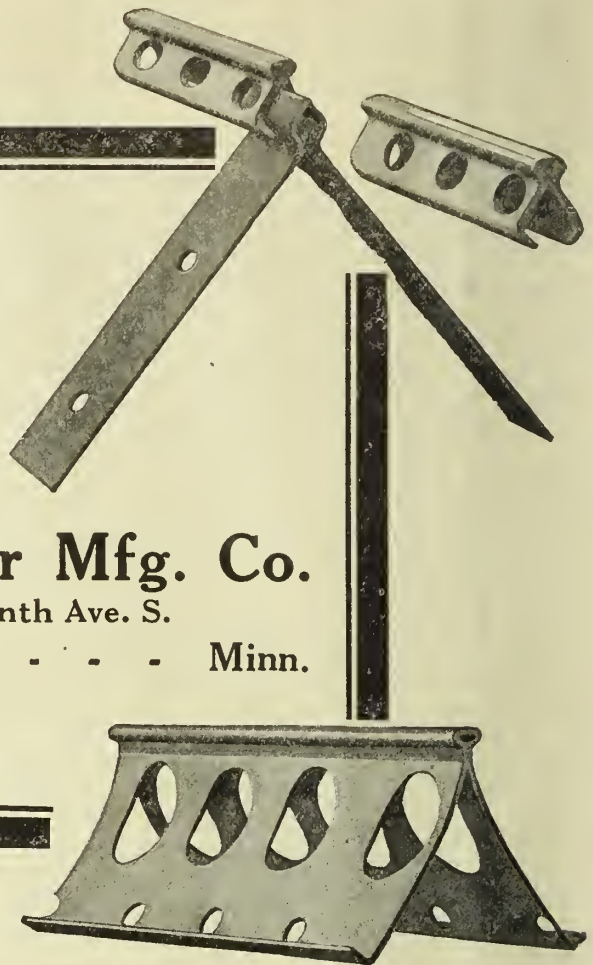
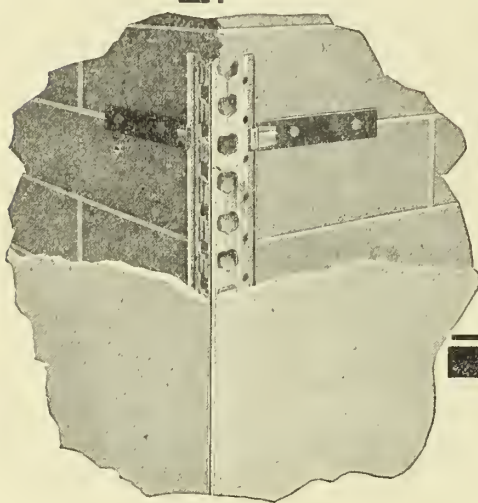




## Berger's Corner Beads

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300-312 Tenth Ave. S.  
Minneapolis, - - - Minn.



### DRAINAGE, IRRIGATION, RECLAMATION.

The A. H. Sonner Co., Ltd., has been organized at Bellevue, Idaho, to conduct a general livestock, farming and irrigation business. A. H. Sonner and Rosa Sonner and J. G. Hedrick are the directors for the first year. The capital stock of the company is placed at \$25,000, in shares of \$25 each.

The secretary of the interior has awarded contract to the Lehigh Portland Cement Co. of Chicago, Ill., for 13,000 barrels of Portland cement, at \$1 per barrel, f. o. b. cars Mason City, Iowa. This cement is for use on the Fort Creek irrigation project and on the distribution system of the Milk river project in Montana.

With the purpose of carrying on the business of the farmers in general, especially with reference to their relation with the United States government, farmers on the Huntley project have organized the Huntley Water Users' Organization. It has pow-

er to practically conduct all the business of the farmers. It is incorporated for forty years at a capitalization of \$40,000.

Directors of the Flatwillow creek project, north of Billings, have almost completed arrangements and work will be started in the spring. This project will be built under the Carey act and will include 20,000 acres. Water for irrigation will be stored in Pike creek, about two miles from Flatwillow creek, from which it is taken. A dam 50 feet high will be built across the smaller creek, and during the high waters in the spring the water will be diverted into Pike creek by means of a canal. One railroad has already surveyed through the project and another has secured right-of-way practically through and has its line surveyed part way.

The Hayden Bros. of Portland, Ore., have been awarded the contract for constructing the Pishkun reservoir supply canal and the Sun river slope canal on the Sun river irrigation project, at a contract price of \$242,-

973. Work is to be done on the north side of Sun river, from twenty-five to seventy miles west of Great Falls, near the Sun river branch of the Great Northern railroad.

### Free Help Wanted

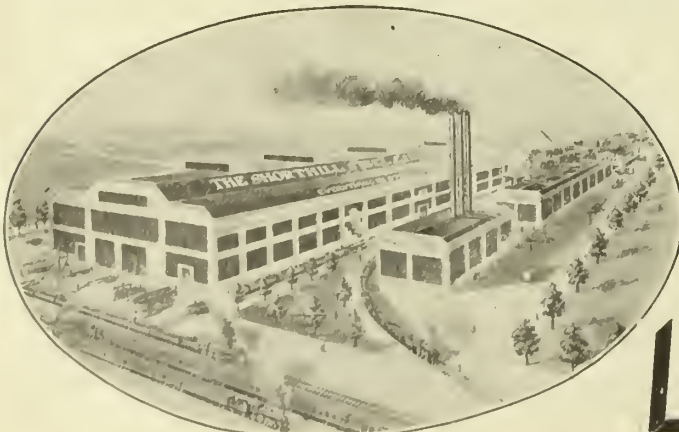
Wanted—A first-class cement worker to work and take charge of small crew. Address G. J. HARDING, Lock Box 652, Williston, N. D.

### POSITION WANTED.

By an experienced building superintendent and quantity estimator, age 30. Location preferable in Twin Cities.

Address Box 500, Improvement Bulletin.

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PERRY, IOWA

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# CONSTRUCTION & CONTRACT NEWS

OF SPECIAL VALUE TO ENGINEERS, CONTRACTORS, BUILDERS AND MANUFACTURERS

## MINNEAPOLIS, MINN.

Office: 912 Lumber Exchange.

Phones: N. W. 3902. T. S. 2194.

Please telephone news not later than Wednesday.

Items marked with asterisks not in Daily Sheets.

### BUILDING PERMITS.

W. E. and Blanche L. Cummings, 4709 S. Lyndale av., 1-story plaster veneer dwl.; Cooper & McAllister, builder..	3,000
Agnes Squire Potter, 2412 Harriet av., general repairs and alterations and 2½-story frame addition to dwl.; Pike & Cook, builders	4,000
C. F. Lanz, 2800-02 14th av. S., 2-story brick flats (4); J. Peterson, builder	8,850
John A. Mattson, 4334 Stevens av., 1½-story plaster veneer dwl.	2,500
A. F. McDonnell, 3909 30th av. S., 1-story frame dwl.	3,000
R. W. Hammond, 107 Arthur av. SE., 1½-story plaster veneer and frame dwl.; Luther James, builder	3,000
Geo. W. Rand, 3445 39th av. S., 1½-story frame dwl.	2,600
C. G. Carr, 200-08 E. 26th st., alterations and repairs to brick dwls.	2,000
Board of Education, Penn and 36th av. N., 2-story brick addition to Penn school; Johnson Const. Co., builders	40,000
Barrett Mfg. Co., 1 19th av. S., repairs after fire; J. L. Robinson Co., builders	4,000
F. A. Erb, 3444 1st av. S., 2-story plaster veneer and shingle dwl.; Harris Phillips, builder	4,000
George E. Reynolds, 5042 S. Bryant av., 1½-story plaster veneer dwl.; F. E. Haedrich, builder	4,500
Dr. T. H. Bauer, 2728 S. Chowen av., 1½-story plaster veneer tile dwl.; R. Billingsley, builder	2,000
A. D. Morrill, 1104 N. Xerxes av., 2-story plaster veneer tile dwl.; R. Billingsley, builder	6,200
H. G. Thoen, 2836 37th av. S., 1-story frame dwl.; A. E. Morgan, builder	2,000
Swan Peterson, 4037 17th av. S., 1-story plaster veneer dwl.	2,000
J. A. Campbell, 5021 Stevens av., 2-story plaster veneer dwl.; D. C. Bennett, builder	6,000
Mrs. Bessie C. Secombe, 4805 S. Colfax av., 2-story brick dwl.; contract not let.	7,500
Harris Dana Newkirk, 4235 Garfield av., 2-story plaster veneer dwl.; D. C. Bennett, builder	4,800
John Jepsen, 2212 24th av. S., 1½-story frame dwl.; Hans C. Sorby, builder	2,000
S. R. Winter, 3940 10th av. S., 1-story plaster veneer dwl.; Nels J. Blennoff, builder	2,200
Chas. C. Olmendinger, Jr., 2809-11 27th av. S., 2-story plaster veneer flats (4); Peter H. Olson, builder	5,000
American Const. Co., owners and builders, 2649 N. Penn av., 1½-story frame dwl.	2,150
T. K. Setre, 3700 12th av. S., 1-story plaster veneer dwl.	2,100
Russell Cooke, 2542 Blaisdell av., 2-story frame dwl.	4,800
E. C. Ramstad, 3703 Harriet av., 1½-story plaster veneer dwl.	3,500
Twin City Separator Co., 2748 Dupont av. S., extend foundation downward in factory	4,000
F. W. Gillies, 4156 Garfield av., 2-story plaster veneer dwl.; John Ecklund, builder	5,500
C. W. Menellay, 1409-11 Nicollet av., 1-story brick stores (3); P. J. Sonner, builder	6,800
Clark J. Allen, 2601-03 S. Lyndale av., 1-story brick stores (2)	2,500
P. C. Deming, 2659 Hayes st. NE., 1½-story frame dwl.; Dawson Bros., builders	2,000
O. H. Carlson, 2204 Garfield st. NE., 2-story plaster veneer dwl.	4,500

Frederick G. L. Hunt, 1938 Hayes st., civil engineer, has commenced taking bids for construction of about 40 miles of railroad north from Sturgeon Bay, Wis. This line will be called the "Door County Peninsula Railroad." There will be about 200,000 yards grading of which about 11,000 will be solid rock. Construction will include everything to put the line in operation including fences, bridges, telephone line, stations, docks, wharves and rolling stock. The work will be started about June 15, and is to be completed for operation the first part of October. The promotion and financial arrangements are being handled by the E. E. Galle Co., Plymouth building. Mr. Hunt is directing engineer.

\*Contract awarded to James H. Brown Co., Lumber Exchange, for the branch public library, 4th av. and 36th st.; brick, terra cotta, steel, reinforced concrete, composition roof; general includes bookcases; plumbing, Chas. Wilkins, 610 3d av. S.; heating, Hanke & Eha, 332 3d av. S.; electrical work, Twin City Electrical Co.; painting, E. M. Driscoll; excavation started; equipment bids, furniture, racks, etc., later. Chapman & Magney, associate architects, Essex building. Sketches out on branch, 6th av. N., and bids taken soon on branch at 32d and Central.

Beck Electrical Construction Co. have just closed a contract for the complete electric equipment of telephone, signal system and electric light and power wiring in the three 32-apartment buildings now being erected by W. S. Chase on

Stevens av., near 18th st.; also for the complete electric equipment of telephone, signal system and electric light and power wiring in the flat building being erected by Anderson-Nelson Construction Co. for 19 apartments on 1st av. S., near 18th st.

A \$12,000 structure will replace the burned Vanderburg church; L. C. Huttner, 3244 Minnehaha, in charge of building; will be frame, stucco, concrete foundation; seats for 300 in auditorium, with rolling partitions to adjoining rooms to increase capacity; steam heat, finished basement, kitchen, dining room, reading room, gymnasium; work to begin in about 60 days, completed next fall; plans being prepared by C. E. Bell, architect, 312 Security Bank building.

Chas. A. Berger, refrigerating engineer and architect, Sykes block, has prepared plans for one of the largest poultry cooling plants in the west, at Arlington, Minn.; H. N. Noack & Sons, owners; frame, iron clad, metal roof, shavings and cork insulations, cement finish, deep well, fuel oil, 30 h. p. Anderson engine, concrete oil storage tank; owners will let all work.

Chas. L. Pillsbury, consulting engineer, Metropolitan block, will take bids on sprinkler system and heating for new N. W. Knitting Co. factory, 3d and Lyndale N.; plans out this week, 8-story, 11-story tower, concrete construction, John Wunder, Lumber Exchange, contractor; bids in on electric work and plumbing; elevator contract will be let by engineer.

\*C. LeRoy Kinport, architect, Essex building, is preparing plans for remodeling and rebuilding after fire at Western and Colfax, for A. Springer, flats and stores; brick, hardwood floors, birch and fir finish, three baths, wiring, gas piping, tile store floor, plaster veneer walls; plans ready next week; architect will let work.

\*C. E. Ovenshire, 1427 W. 27th, will build a modern residence on Oliver av. near 19th; frame and stucco, 2-story, finished basement, two apartments, three baths, tiling, porcelain plumbing, brick fireplace, rathskeller in basement, garage with reinforced concrete floor.

C. S. Sedgwick, architect, Lumber Exchange, has furnished plans for a modern residence for A. B. Uhlin, Pillsbury-Washburn Co.; frame, stucco, 34x26, hot water heat, hardwood trim; \$3,000; oak and birch trim; also plans for a residence, Carroll, Iowa, for Dr. L. L. Dreis; frame stucco, fireplace, hot water heat, 34x26, \$3,000.

Contract for the Schusler residence, Blooming Prairie, was let to Nick Rothermel, Blooming Prairie; Haley & Johnson, architects, Plymouth building; contract for H. A. Nelson residence to A. E. Rydlun, 2719 Lyndale N., frame, stucco, hot water heat, brick fireplace.

O. K. Westphal, architect, Northwestern building, has prepared plans for remodeling the dwelling of Mrs. M. Talcott, 1101 Logan av. N., to a duplex; two hot water heating plants, new heating, plumbing, sidewalks, trays, hardwood floors and finish; owner lets all work.

C. A. Boehme, architect, Kasota block, has prepared plans for a store 4160 Wash. av. N., bowling alley and lodge building at 2119-23 Crystal Lake av., for G. E. Woehler; brick, concrete foundation, 2-story and finished basement, club rooms, barber shop, store fronts, plumbing, heating and wiring, plate glass, skylights.

\*Excavation was started this week for a modern residence in Kenwood for W. A. Elliott, of J. & W. A. Elliott Co., contractors, Lumber Exchange; 2-story, frame and stucco, hot water heat, 42x46, tile bath, sleeping and sun porch; plans out; brick fireplace.

Contract awarded to N. W. Terra Cotta Co., K. F. Lott Co., N. W. agents, 522 Andrus building, for terra cotta on First National Bank-Soo office building; R. W. Gibson, architect, New York; Thompson-Starrett Co., contractors, Chicago; largest terra cotta contract ever given in Twin Cities.

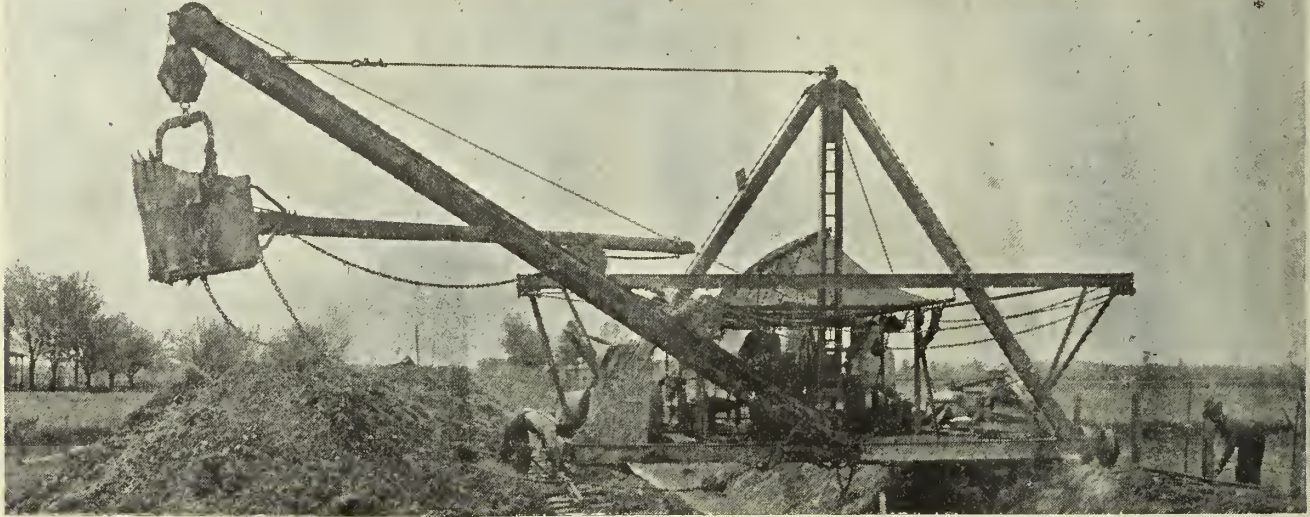
\*A. R. Van Dyck, architect, 742 McKnight building, is preparing plans for a theater and store building, Riverside av., for the Rea Realty Co., Tribune annex; brick and tile, fireproof, 2-story, 44x100, second floor lodge hall; theater seats for 500; terra cotta trim, marquis.

Chas. L. Pillsbury, consulting engineer, Metropolitan block, has completed mechanical equipment plans for ladies' gymnasium, state university; plans for mechanical equipment, school of mines building, and for cottages 8 and 9 Hastings, will be out next week.

Permit issued for a modern residence, 1104 N. Xerxes, for A. D. Morell, 26x37, 2-story plaster veneer and tile, hot water



# Ditching at Lowest Cost



A Bay City Land Dredge with  $\frac{3}{4}$ -yard dipper, 38-foot boom and 40 horse power kerosene engine

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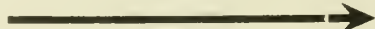
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heat, tile bath, \$6,000; plans by Tyrie & Chapman and Carl A. Gage, associate architects, Auditorium; R. Billingsley, contractor, Kasota block.

Gust. Lagerquist elevator builder, 516-18 3d st N., has installed two freight elevators, for the American Linen Co., 911 Mary Place; also freight elevator, 916 Nicollet, for J. E. Meyers; also freight elevator for M. A. Kurstin & Co., 317 1st av. N.

\*Peter Moe, architect, 1913 Columbus, has prepared plans for a duplex, Oakland between 31st and 32d, for Mr. Adria Bruheim; frame, stucco, hot water heat, sun porches, modern; bids taken by owner, 17th st., between 10th and 11th avs.

Bids received till 3 p. m., May 20, by city purchasing agent, 217 City Hall, for furnishing city, 16,780 yards 3-inch broken stone; 6,000 yards 2-inch; 28,420 yards 1½-inch; bids received for sand (20,000 yards) for 3d av. bridge, same date.

E. C. Ramstad, 3500 Lyndale av. S. has contract for a 2-story frame dwelling, 2542 Blaisdell, hot water heat, modern, \$4,800, for Russell Cooke; also is building for himself plaster veneer dwelling, 3703 Harriet, 24x33, modern, \$3,500.

Perry Crosier, architect, 615 Plymouth, has furnished plans for a modern dwelling, 5042 S. Bryant, for Geo. E. Reynolds, 1338 1st av. S., 28x28, plaster veneer, hot water, modern, \$4,500; F. E. Haedrich, contractor, 3140 S. Colfax.

\*Rich & Harris, engineers, Auditorium building, have prepared plans for a sewer system at the Midway plant of the White Enamel Refrigerating Co.; 9-inch tile, 6 manholes, excavating; bids being taken at the plant.

\*A. R. Van Dyck, architect, is occupying larger and finer quarters in one of the best suites of the new part of the McKnight building, No. 742. Prof. Mann, of the state university, has the connecting suite, 744.

\*A. R. Van Dyck, architect, 742 McKnight building, is preparing plans for the Maternity hospital, Western av., for which money is being raised; cottage plan, main building, and one cottage, brick and tile.

\*Miller-Davis Printing Co. building, 4th and 3d av. S., awarded to James Leck & Co.; work started, 4-story reinforced concrete; plans by Mather & Burner, architects, McKnight building.

First unit of the installation in the power station of the Coon Creek hydro-electric plant, is due to arrive May 18; others will follow as fast as they can be installed.

Horace Phillips, 4307 Girard av. N., has a contract for a residence, 3441 1st av. S., for F. A. Erb, 3446 1st av. S., plaster veneer and shingles, modern, hot water heat, \$4,000.

\*Rich & Harris, engineers, Auditorium building, will have the mechanical equipment plans for Simmons school addition out next week, heating, ventilating and wiring.

A \$600,000 bank building is announced for the National City Bank, Lumber Exchange, formerly Commercial National, probably on 7th st., Geo. F. Orde, president.

University club project to build has been indorsed by popular vote of the club; S. S. Thorpe, Thorpe Bros., real estate, Andrus building, president.

Funds have been raised for remodeling old chemistry building state university for Men's Union.

J. L. Robinson & Co. general contractors, 511 S. 7th st., will make repairs after fire at No. 1 19th av. S., for the Barrett Manufacturing Co., \$4,000.

Cottage on the Jones-Harrison, old ladies' home grounds, will be remodeled to house fifteen; \$12,000; Mrs. H. D. Dickinson, president.

C. F. Lanz, 2806 14th av. S., is building a 4-flat, 38x54, 2-story, brick, veneer, hot water heat, modern, \$8,850; contract to J. Peterson.

## ST. PAUL, MINN.

404 Scandinavian American Bank Building.

Phone: N. W. Cedar 1683.

Mail or telephone news not later than Wednesday.

Items marked with asterisks not run in Daily Sheets.

### Building Permits.

Perry-Fry Co., 415 Commerce bldg., 1½-story dwl., Selby near Cretin; Perry-Fry Co., builders.....	3,500
John Winkler, 1½-story frame dwl., James near Bay; G. B. Hoffman, builder.....	2,300
John Wagner, alterations and repairs, 315 Robert near 3d; Wm. Baumeister, builder.....	3,500
Louis Muehlbauer, 319 Robert, alterations and repairs, 319 Robert near 3d; Wm. Baumeister, builder.....	6,000
C. P. Abbott, Pioneer bldg., 2-story brick and frame store and flats, Grand near Macalester; Carl Nelson, builder.....	4,300
Ben Goldberg, 233 Chicago st., 2-story frame 4-flat building, Chicago near State; Anton Holmquist, builder.....	5,000
F. P. Mauck, 534 Van Buren st., 1-story frame dwl., Oxford near Front; Gust Lindgren, builder.....	2,000
A. Smith, 1½-story frame dwl., Reaney near Mendota; C. E. Brown, contractor.....	2,500
Peter J. Lyden, Minneapolis, 2-story frame 4-flat building, Dayton near Pierce; Lyden Bros., contractors.....	8,000

Mrs. Belle McGeary, 551 W. Central, 2-story frame dwl., 1229 Portland near Griggs; J. H. Brandhorst, contractor.....	2,500
H. & E. Strandlof, 1286 Capital, 2-story frame 4-flat building, Minnehaha near Pascal; G. E. Trenter, contractor.....	8,000
Ellen M. Haas, 627 St. Anthony, 2-story frame store, Selby near Fry; J. L. Haas, contractor.....	3,500
E. Neuenfeldt, 860 Cook, 1½-story frame dwl., Fremont near Forest; Hans Lund, contractor.....	2,500
J. D. McLaren, 136 Igleshart, 2-story frame dwl., Osceola near Mt. Rose; C. E. Swanson, contractor.....	2,800
Arthur Owan, 136 Igleshart, 2-story frame dwl., Osceola near Cretin; C. E. Swanson, contractor.....	2,800
Anna M. Lindstrom, 1837 St. Anthony, 1½-story frame dwl., Selby near Aldine; C. E. Swanson, contractor.....	2,000
Frank A. Fritz, 1313 James, 1½-story frame dwl., James near Syndicate; Frank A. Fritz, builder.....	2,000
John Scharff, 1260 Laurel, 1½-story frame dwl., Dayton near Syndicate; John Scharff, builder.....	3,000
Harriet Olsen, 735 Euclid, 2-story frame 4-flat building, Grand near Cambridge; Sidney Hitchcock, builder.....	5,000
W. F. Frantschi, 1½-story frame dwl., Concord near Bancroft; Jeppe C. Pederson, builder.....	2,500
Essenholm & Johnson, builders, 432 Dayton, 1½-story frame dwl., 1481 Van Buren near Pascal.....	4,000
John Lindgren, 1½-story frame dwl., 1361 St. Clair near Hamline; A. H. Heimback, builder.....	2,000
H. G. Doeren, 695 E. 7th, 1-story frame dwl., Fuller near Avon; J. C. Johnson, builder.....	3,000
H. Schaetgen, 754 Hamline, 1½-story frame dwl., 1287 Blair near Syndicate.....	2,600
H. Schaetgen, builder, 754 Hamline, 2-story frame dwl., 1283 Blair near Syndicate.....	2,800
Ferdinand Hener, 50 W. Louisa, 1½-story frame dwl., Hall near Morton; F. Ronnusch, builder.....	3,200
Mary V. Guthunz, 2-story frame dwl., 1637 Hague near Fry; Bridgeman & Ryan, builders.....	3,200
J. S. LaBrec, 450 S. Warwick, 1-story frame dwl., 450 Randolph near Palace; J. S. LaBrec, builder.....	3,000
Chas. Volrabik, builder, 691 Canton, 1½-story frame dwl., Logan near Canton.....	2,500
R. J. Gardner, builder, 3 Fargo blk., 2-story frame and stucco apartment house, Laurel near Fairview.....	10,000

Contract has been awarded to Raymer Hardware Co. for the finish hardware for the addition to the L. W. Hill residence on Summit av.; also for hardware for one more floor on the Lowry building, amounting to \$3,000. This makes \$18,000 worth of hardware which the Raymer Co. have furnished for this building up-to-date, one of the biggest contracts from the hardware standpoint which has been let in this part of the country for a good many years. It is also of the most complicated key systems in the U. S.

A. F. Gauger, architect, Scandinavian Bank building, has furnished plans for a septic tank, 18x13.6, and pool, for Rosemont, Minn. co-operative creamery; also plans for new vault, concrete for Norwood, Minn. State Bank, contract to C. Spiess; also plans for sun parlor and porch, Sleepy Eye, Minn., for Mrs. A. A. Beckner; pressed brick, tile floor, marble base, French doors, screened and glazed, Bedford stone trim.

The First State Bank of Dalton, Minn., will erect a bank building; pressed brick and cut Bedford stone, after plans by A. Moorman & Co., contracts have been let. A. Moorman & Co. prepared plans for the First State Bank of Underwood, Minn.; 1-story pressed brick with Bedford stone columns; interior quarter sawed oak; contracts let.

Bids received by state game and fish commission, Capitol building, until 4 p. m., June 2, for construction of fish hatchery, Granite Falls, Minn.; plans at architects, P. J. Linhoff, Germania Life building, and office of commission, Capitol; also office of E. C. Hawkins, Granite Falls; check for \$500; H. A. Rider, fish commissioner.

H. A. Miller, architect, is making plans for a modern residence, Edmund near Victoria, for J. P. Opitz; 24x35, brick, modern, hot water heat; has plans out for the residence of Mrs. Albertson, Austin, Minn., also plans out, figures by architect and owner for the A. C. Muggenberg residence, frame.

E. L. Masqueray, architect, Endicott Arcade, will take figures until May 20, on reinforced concrete floor, 80x80, for the cathedral, including gallery floor; also figures on pews, white oak, seat 2,500, this week and next; will take figures soon on Catholic church at Woonsocket, S. D.

J. H. Druar, Oscar Claussen Engineering Co., Commercial building, announces bids for the Deerwood, Minn., sewer and water system, \$25,000, will be readvertised; is preparing plans for Parker, S. D. electric light system, \$27,000; has filed report for Barron, Wis.

E. L. Masqueray, architect, Endicott Arcade, is taking figures on the orphan asylum dormitory, Chicago av., Minneapolis, brick and stone, reinforced concrete construction, steam heat, fireproof, mechanical equipment later; showers, lockers, kitchen equipment.

Contracts let on West St. Paul school, heating, John D. Roberts, Gilfillan block, electrical, Gorman Electric Co., plumbing, N. J. O'Neil; Boyd Construction Co., Germania Life, general contractors; Alfred H. Wheeler, architect, Globe building; foundation started.

St. Paul Building Co. has the contract for the 1-story brick concrete and steel garage, University near Rice, for John Venne, 46 Rice; 55x110, steam heat, steel trusses by St. Paul



Foundry Co., \$7,800, Bentley & Hausler, architects, Pioneer building.

H. A. Miller, architect, Pittsburg building, is preparing plans for a duplex; owner's name withheld; 26x45, two hot water heating plans, modern, tiling, sideboard, concrete foundation, shingle roof, sleeping porch with drop windows, laundry tray.

H. A. Sullwold, architect, Studio building, has let contract on E. F. Lyon residence, 1657 Portland, to F. B. Stork, 1761 Hague, frame, stucco, brick fireplace, hot water heat, sleeping porch, modern; heating, plumbing and wiring not let.

Alban & Lockhart, architects, now in the Chamber of Commerce building, will be in fine new and larger quarters after June 10th, in suite 350, Endicott Arcade, increasing the already numerous colony of architects in this building.

Permit issued for the Hugo Hirschman residence, Summit and Saratoga, 39x60, 2½-story brick, frame and stucco, all modern, contract to Lindstrom & Anderson, 1493 Grand; plans by Peter J. Linhoff, architect, Germania Life building.

Contract awarded to N. W. Terra Cotta Co., K. F. Lott Co., N. W. agents, Ryan Annex, for terra cotta on Hamm Brewing Co. building, 3rd and Robert; Alden & Harris, architects, Commerce building.

(Cont'd on page 17.)

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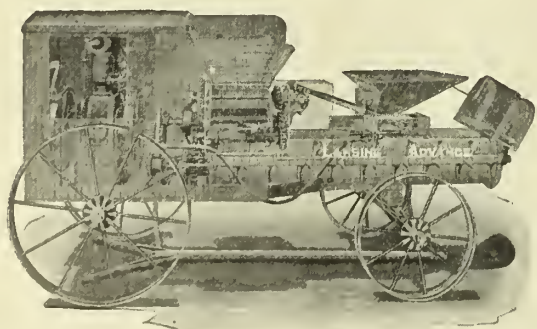
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St. Paul, Minn.

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*and still be accurate*



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The ADVANCE does more than mix—it proportions the material as accurately as you could do it with a measure. The sliding box method is unaffected by varying aggregates or wet sand. It *can't* go wrong.

You get the mixture you set it for—*always*.

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These mixers are always kept in stock here at our warehouse. Come in and look them over at your leisure. We can have a machine on its way to you in an hour after receiving your order.

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**C.H.&E.**

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EQUIPMENT**

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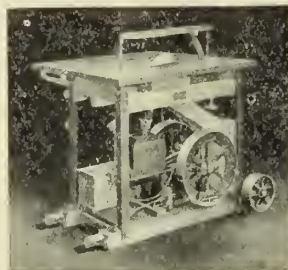
OR WRITE

**H. B. JONES**

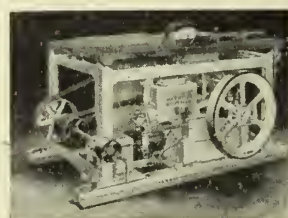
349 Security Bank Building  
MINNEAPOLIS, - MINN.

**Contractors' Equipment Co.**

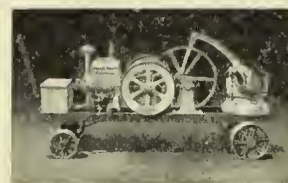
422 Hubbell Bldg.  
DES MOINES - IOWA



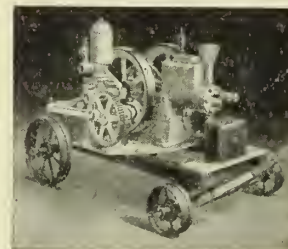
No. 3 Saw Rig.



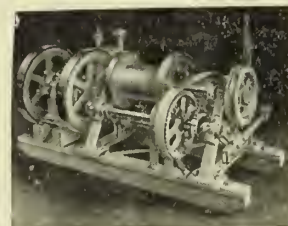
No. 4 Saw Rig.



Trench Pump



Piston Force Pump



Gasoline Hoist



Mortar Mixer

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Mortar and Plaster Mixers,  
Tar Kettles, Chutes, etc.

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Mfg. Co. Inc.**

**MILWAUKEE, - WIS.**



**St. Paul.—Continued.**

H. T. Koen, contractor, is building the Twin City Motordome for the National Amusement Co., University near Snelling; address owners, care Gaiety theater, Minneapolis; contractors' address Motordome.

Peter J. Leyden, 3121 Cedar av., Minneapolis, is building a 4-flat on Dayton between Pierce and Aldine, frame, 2-story, 40x56, hot water heat, modern, contract to Leyden Bros., 3121 Cedar av., Minneapolis.

Alban & Lockhart, architects, Chamber of Commerce, let contract for Northwood high school, to West Construction Co., Iowa City, heating and plumbing to Greene Construction Co., Albert Lea, Minn.

Alban & Lockhart, architects, Chamber of Commerce, awarded general contract, I. O. O. F. building, W. 9th st., to Sleeper-Steinlauf Construction Co., 303 Jackson st., St. Paul.

Contract awarded to Beier Bros., Selby av., for residence of G. Vandertuuk, 507 Scandinavian American Bank building; A. F. Gauger, architect, Scandinavian Bank building.

Bids received till 8 p. m., May 21, for heat, light and plumbing, St. Mary parochial school, White Bear, by C. P. Conway, secretary; plans at parochial residence.

Work has started on the \$100,000 improvements at the Standard oil plant, 3d and Commercial.

A 2-story frame store is being built by Ellen M. Horas, 627 St. Anthony, on Selby near Fry, 38x35, modern, plate glass, contract to J. L. Horas, 881 Ashland.

A 4-flat is being built on Minnehaha near Pascal by H. and E. Strandlof, 1826 Capital; owners and builders, 38x44, modern, hot water heating plant.

Enlarged plant of U. S. Bedding Co., 60 W. 10th, at Minnehaha, Arundel, Western and Como, will e ready July 1; Harry A. Dayboch, secretary.

Lutheran Synod gave \$60,000 for lecture hall, Concordia college, St. Anthony and Syndicate; work to start at once; Theo. Buenger, president.

Fitzpatrick Building Co. have contract for remodeling and redecorating La Bosiere store, 7th and Wabasha, decorations by H. P. Nielsen Co.

Mrs. Gombold is building a bungalow on Ann near Minden, 22x44, frame, hot water heat, modern; contract to G. C. Trenter, 850 Randolph.

Two bungalows are being built by A. Silberman, 1306 Front, on Isabell between State and Greenwood, frame, modern, 22 x46.

A 3-story brick store building at 359 Robert is being improved by J. H. Nickel, 717 New York Life.

Rumored that large modern hotel will be built in place of Merchants and Gilfillan block.

Foundation started for Swedish Baptist Bethel academy, Como Park, \$35,000.

**HEAD OF THE LAKES**

Office: 206 Manhattan Building. Telephone: Auto 3036.  
Mail or telephone news not later than Wednesday.

Items marked with asterisks not in Daily Sheets.

**DULUTH.****Building Permits.**

Hunter's Park Land Co., frame dwl., Kenilworth av.....	6,500
O. P. Stoeck, frame dwl., 22d av. W. near 6th av.....	2,000
T. Abernathy, frame dwl., Cook st. near 45th av.....	2,000
N. B. Nelson, frame dwl., 7th av. E. near 10th st.....	2,500
Winnisheick Co., frame dwl. and barn.....	2,050
Otis Elevator Co., two elevators, W. Superior st. near 4th av.....	6,000
A. M. Krause, frame dwl., E. 7th st. near 5th.....	2,500
Mrs. Margaret P. Jefferies, frame dwl., 21st av. E.....	13,000
Berwind Fuel Co., foundation for dock and 3-hoist bridges, 5th av. W.....	232,500
C. Wester, frame dwl., W. 5th st. near 26th av.....	2,000
C. E. Wallace, frame dwl., E. 4th st. near 21st av.....	7,000
W. S. McKay, additional story to hotel, 5th av. W. and 1st st.....	25,000
C. S. Rogers, frame dwl., E. Superior st. near 41st.....	3,000
A. Ruden, frame dwl., W. 1st st. near 13th av.....	2,500
Mrs. Margaret Welville, frame dwl., E. 4th st. near Woodland av.....	7,000

\*Edward P. Shurick, architect, has plans ready for figures for a residence for J. St. Clair on Woodland av. above 6th st. E.

\*The same architect has been taking figures on plumbing and heating to be installed in the house being built for Mrs. M. McGrath at Kerrick, Minn.; also receiving bids on the general contract, plumbing and electric wiring for the new home of L. F. Devlin at Lakeside.

\*The contract for Bernard Silberstein residence at 21st av. E. and 1st st., has been awarded to Appleby Bros.; brick, modernly appointed throughout, entailing an expenditure of about \$15,000; plans by F. G. German, architect.

\*Contract for excavating foundation for an office building and dwelling for the Highland Co., at Duluth Heights, to Jno. Robertson; plans by Arthur Hanford, architect.

\*Word received that the state railroad and warehouse commission has approved plans of the Duluth & Iron Range road for a new bridge where its right-of-way intersects Lake Shore park.

\*County board has passed a resolution favoring proposed bridge across the St. Louis river at Fond du Lac to connect with a direct highway into Carlton county and on to the Twin Cities.

\*General contract for the Irwin Fish home at 420 Gladstone av., awarded to Jas. Falconer, plumbing and heating to Archie McDougall, plans by Arthur Hanford, architect.

\*Waganstein & Giliuson, architects, are preparing plans for a brick store building 50 feet by 75 feet, to be erected between 21st and 22d av. W. on Superior st.

\*A. Fieldman will begin the construction of a 2-story and basement department store building, to cost \$10,000, at 314 Central av. at once; 25x115, modern.

\*Statistics compiled by eastern building experts show that Duluth building totals for April were 57 per cent greater than for the corresponding period of 1913.

\*Contract awarded to John Knuti for school No. 45, unorganized district, 8 miles west of Angora, two room, providing living apartment for teacher.

\*Anthony Puck, architect, has plans for a frame and stucco home for M. J. Benson on 23d av. E., estimated cost \$8,000; contract will be let May 23.

\*Park Point Improvement club wants a new school house to take the place of the old Radisson, and will take the matter up with the school board.

\*Contract for frame residence for Geo. Borziick, Ely, Minn., awarded to Harry Pearson at \$7,000; plans by Holstead & Sullivan, architects.

\*Vernon J. Price & Co., architects, will have revised plans for the Barrows, Minn., school out for bids on May 23; estimated cost \$8,000.

\*Ivan Holmberg will build a \$4,000 bungalow at Columbus and Lewis sts., Glen Avon; plans by Arthur Hanford, architect.

**SUPERIOR.**

\*Building permits for 12 residences, to cost \$34,500, were issued May 6, as follows: Elias Siegal, dwelling at 1610-12 Hughitt av., \$5,000; Siegel Bros.' dwellings at 1701-3-5 Ogden av. and 1613 18th st., \$2,500 each; Hans Hagreen, dwelling at 1909-11 Hughitt av., \$2,000; A. Dauplaise, 4 dwellings at 1902-4-6-8 Baxter av., \$3,000 each; P. A. McConville, store and flat building at 1114 Belknap st., \$3,500; Jos. Lynch, addition to dwelling at 1417 Cumming av., \$2,000.

\*Permit for the new normal building, to cost \$175,000, has been issued; 150x256, 3-story reinforced concrete and brick; R. B. Hartman, contractor, will rush the foundation by day and night work; Emil Sedlachek, general contractor.

\*Contract for the extension of the Belknap st. viaduct has been let to Gerrick & Gerrick, Seattle, Wash., work to start at once and be completed in 40 to 60 days; J. S. Strand, resident engineer N. P. Ry.; cost \$60,000.

\*A site for a new coal dock which, it is said, will cost \$1,000,000 has been acquired on Superior bay by the Lehigh Valley Coal Co.; work to start this summer.

\*The city commission will buy property for park at Belknap st. and Clough av.

**MILWAUKEE, WIS.**

Office: Hathaway Building; Telephone Main 1827.  
Mails news to Minneapolis office not later than Wednesday.

Architect W. F. Neumann, 1130 26th st., is taking bids on remodeling building at 951 3d st., for J. Perkins; to contain two stores, two offices and five apartments; three-story and basement, 40x70, solid brick, new store fronts; tile flooring and wainscoting for 5 bath rooms; steam heat; taking bids on a residence for Geo. Adams at 775 Murray av.; frame and stucco, 2-story and basement, 24x34, cost \$6,000; hot water heating, art and plate glass; completed plans for a bungalow at 25th and Burleigh sts., for A. Huber; brick veneer, 27x45, furnace heating, art and plate glass, cost \$4,000; preparing plans for a semi-bungalow at Park and Maryland av., owner's name withheld; frame and stucco, 26x40, hot water heating; garage, 12x20.

Architects Herbst & Hufschmidt, Caswell block, are taking bids for mercantile building, 12th and Walnut sts.; bids include cut stone, tile, marble and mosaic, steel and ornamental iron, steam heat; awarded on duplex for Wm. Ewert at 578 5th av.; carpenter, Chas. Robran; mason, Kroening; cement, Kelck; plaster, Chas. E. Bartz; plumbing, W. F. Adams; heating, H. M. Daily; electrical, Co-operative Co., awarded general contract on duplex for Schroeder at 612 2d av. to Kowski.

Architect H. W. Buemming, 521 Jackson st. will take bids  
(Continued on page 25.)



# PROPOSAL ADVERTISING FOR BIDS

## PROFESSIONAL DIRECTORY

### ENGINEERS

**L. P. WOLFF**, Consulting Engineer,  
M. Am. Soc. C. E.  
1000-1003 Germania Life Bldg., St. Paul.  
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**CHAS. A. BERGER**,  
Refrigerating Engineer and Architect,  
Sykes Block, Minneapolis.

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REPAIRS



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STACKS  
SUPPLIES

CLINTON, - - - IOWA.

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building purposes. Color, buff or light red

**OLE ARNEGARD, Manufacturer**

Successor to Hillsboro Brick & Tile Co.  
HILLSBORO, N. D.

## Dickinson Brick

ALL KINDS

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**DICKINSON Fire and Pressed BRICK CO.**

Dickinson, N. D.

### CHURCH, EDGELEY, N. D.

The undersigned hereby gives notice  
that sealed proposals for the erection of  
a brick and stone church building, in-  
cluding all labor and material, will be re-  
ceived by Mr. Chas. Gunthorp, Edgeley,  
N. D., until the hour of 10 A. M., on the  
25th day of May, 1914.

All bids must be in strict accordance  
with the plans and specifications, pre-  
pared by Geo. F. Fossum, Architect, of  
Aberdeen, S. D., which may be seen at  
the office of the Architect on and after  
the 5th day of May, 1914, and may also  
be seen on application to Mr. Chas. Gun-  
thorp, Edgeley, N. D.; also at the Build-  
ers' Exchanges of Minneapolis and Far-  
go.

Bids on the plumbing and heating will  
be received the same date under separ-  
ate contract.

A certified check for 4 per cent, pay-  
able to the order of Mr. Chas. Gunthorp,  
must accompany each bid as a guaranty,  
the same to be returned to unsuccessful  
bidders immediately on letting the con-  
tract. The party to whom the contract  
is awarded will be required to give a  
satisfactory bond in the full sum of the  
bid for the faithful performance of the  
contract.

The right is reserved to reject any or  
all bids.

(Signed) MR. CHAS. GUNTHORP.  
Edgeley, N. D.

### NOTICE FOR BIDS.

For Park Lighting System.  
Virginia, Minn.

Office of the Secretary,  
April 30th, 1914.

Notice is hereby given that proposals  
will be received by the undersigned, in  
his office, in the city hall building, until  
noon on the twenty-second day of May,  
1914, for furnishing a complete lighting  
system for Olcott Park and South Park,  
in the city of Virginia, Minnesota, in  
accordance with the plans and specifica-  
tions on file in the office of the Secretary  
of the Department of Parks, in said city.

Bids are to be placed in sealed en-  
velopes, marked "Bids for Park Lighting  
System."

A certified check, amounting to ten  
(10) per cent of the amount bid, drawn  
to the order of Wm. J. Schulze, Presi-  
dent, guaranteeing the execution of the  
contract and bond required within ten  
days after the bidder has been notified  
of having been awarded the contract,  
must accompany all bids.

The Park Board Reserves the right to  
The Park Board reserves the right to  
By order of the Park Board of the city  
of Virginia, Minn.

H. J. NATHANSON,  
Secretary.

(Continued on page 19)

## PROFESSIONAL DIRECTORY

### ENGINEERS

**OSCAR CLAUSSEN ENGINEERING COMPANY**

Consulting Engineers.  
Engineering Experts to Municipalities.  
312-16 Commercial Bldg., St. Paul, Minn.

**CHARLES L. PILLSBURY**,

CONSULTING ENGINEER.  
Guaranty Building, Minneapolis.

### POWER ENGINEERING CO.

Offices Corn Exchange, Minneapolis, Minn.

### HYDROELECTRIC ENGINEERS

Examination, Surveys and Reports.  
Dam and Power Plant Design.  
Appraisals and Adjustments.  
General Municipal Engineering.

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**OBERG AND STAMER.**

Erectors of all kinds of Structural and  
Ornamental Iron Work.  
2820 15th Av. S., Minneapolis, Minn.  
T. S. Telephone Cal. 1991.

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Contractors and Builders  
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Instruments. Write for Catalogue

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ST. PAUL

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NORTHWESTERN MANAGERS

702-12 Metropolitan Life Bldg.  
MINNEAPOLIS

**NATIONAL SURETY COMPANY OF NEW YORK.**

Communicate with Us before Arranging your Insurance.



**NOTICE TO CONTRACTORS.**

Sealed bids will be received at the office of C. W. Kaddatz, Fergus Falls, Minn., up to 12 o'clock noon, of Wednesday, May 20, 1914, for the plumbing, steam heating and vacuum piping to be installed in a new hotel and bakery building now in course of construction at Fergus Falls, Minn.

Plans and specifications may be seen at the Builders' Exchange, Minneapolis, and at Fergus Falls.

Each bid must be accompanied with a certified check for \$1,000.00, made payable to C. W. Kaddatz, as evidence of good faith to enter into contract if called upon to do so.

The right to reject any or all bids is reserved.

C. W. KADDATZ,  
Owner.  
HANCOCK BROS.,  
Architects.

**TREASURY DEPARTMENT,** Supervising Architect's Office, Washington, D. C., May 4, 1914.—Sealed proposals will be received at this office until 3 o'clock p. m., on June 10, 1914, and then opened, for furnishing and installing special lighting fixtures for the new United States postoffice at Minneapolis, Minn., in accordance with the specifications and drawings enumerated therein, copies of which may be obtained at this office, at the discretion of the Supervising Architect. O. WENDEROTH, Supervising Architect.

**SEWERS, AUSTIN, MINN.**

Until 8 o'clock P. M., May 22, the Common Council of the City of Austin, Minn., will receive bids on the following amounts of sanitary sewers: 4,074 feet 8-inch, 766 feet 12-inch, 1,785 feet of 15-inch and 672 feet of 18-inch pipe together with all the necessary manholes and appurtenances thereto.

The right is reserved to reject any and all bids. A certified check or a deposit of cash equal to five per cent of the amount of the bid must accompany same.

For further information address  
OSCAR F. WEISSGERBER,  
City Engineer.

**ELECTRIC WIRING.****State Normal, Mayville, N. D.**

Notice is hereby given that bids will be received up to 12 o'clock noon on Friday, May 29, 1914, at the office of the State Normal School at Mayville, North Dakota, for rewiring the main building of the normal school in accordance with plans and specifications prepared by Hancock Bros., Architects, Fargo, N. D., which plans and specifications may be seen after May 1, 1914, at the offices of the architects in Fargo, and at the Builders' Exchange in Grand Forks, N. D. and Minneapolis, Minn.

All bids must be sealed and each accompanied by a certified check for \$250 as a guarantee that the bidder, if successful, will enter into contract. Bids should be addressed and checks drawn to the undersigned.

The Board of Trustees reserves the right to reject any or all bids.

THOS. A. HILLYER, President,  
Mayville, N. Dak.

**NOTICE TO CONTRACTORS.**  
**High School, Garner, Iowa.**

Sealed bids will be received for the construction of a high school building at Garner, Iowa, until May 22, 1914. For particulars regarding plans and specifications write J. N. Spröle, President, Garner, Iowa.

**BRICK CHURCH BUILDING.****Plato, Minn.**

The undersigned hereby gives notice that sealed proposals for the erection of a brick church building to be erected at Plato, Minn., for the Evangelical Saint Paul's congregation, including all labor and material, will be received by the Building Committee until the hour of 11 a. m., on the 22d day of May, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by Albert Schippel, architect of Mankato, Minn., which may be seen at the office of the architect at the Builders' Exchanges of Minneapolis and St. Paul, Minn., and may also be seen on application to Minder Mercantile Co., General Store at Plato, Minn.

A certified check for 10 per cent, payable to the order of F. M. Graupmann, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the sum of full amount of his contract for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed) F. M. GRAUPMANN, Chairman.

ALBERT SCHIPPEL, Architect.  
Place, Mankato, Minn.  
Date, April 21, 1914.

**BIDS WANTED.****Oliver County, N. D.**

The undersigned hereby gives notice that sealed proposals for the following various kinds of road machinery, delivered either at New Salem or Harmon, in Morton county, or at Sanger, Hensler or Fort Clark, in Oliver county, to-wit: Road graders, fresnos, scrapers, road drags, and road plows, prices to include both small and large lots, will be received until the hour of 5 o'clock P. M., of the 23d day of May, 1914.

The parties offering the best bid, and to whom the contract has been awarded, will be required to furnish a satisfactory bond in the sum of \$500.

The right is reserved to reject any or all bids.

FRANK J. V. KIEBERT,  
County Auditor, Oliver County, N. D.

**COURT HOUSE.****Ashland, Wis.**

The undersigned hereby give notice that sealed proposals for the erection of a Court House Building in the City of Ashland, County of Ashland, and State of Wisconsin, including all labor and material, will be received by us at the office of Theo. R. Yankee, County Clerk of Ashland County, Wisconsin, at his office in the Court House in the City of Ashland, Wisconsin, until the hour of ten o'clock in the forenoon, on the 1st day of June, 1914. Each envelope containing bids shall have plainly written or stamped on the outside, "Proposals for Court House Building." All bids must be in strict accordance with the plans and specifications prepared by H. W. Buemming and Henry Wildhagen, Associated Architects, which may be seen at the following places, from and after the 11th of May, 1914, to-wit: Building & Traders' Exchange, 4-5-6 Broadway, Milwaukee; H. W. Buemming, 521 Jackson St., Milwaukee, Wis.; Builders' Exchange, St. Paul; Builders' Exchange, Minneapolis, Minn.; Builder's Exchange, Duluth, Minn.; Henry Wildhagen's office, Dufur Block, Ashland, Wis.

A certified check for 5% of the

amount of each separate bid, payable to the order of Nellie M. Archibald, County Treasurer of Ashland County, Wisconsin, must accompany each separate bid, as a guarantee, the same to be returned to unsuccessful bidders immediately on letting the contract.

Separate proposals will be received for all or any portion of the work as mentioned in the specifications.

The party to whom the contract is awarded will be required to give a surety bond in the full amount of his bid for the faithful performance of the contract.

Extra sets of plans and specifications may be obtained from the architects upon forwarding them a certified check in the sum of \$20.00, \$17.00 of which will be refunded upon the prompt return of same after the contract is let. The right is reserved to reject any or all bids.

**ASHLAND COUNTY COURT HOUSE COM.**

By Carl A. Rudquist, Chairman.  
Ellis Fisher, Secretary.

**PROPOSALS FOR ENGINES AND ELECTRICAL EQUIPMENT.****Melrose, Minn.**

The City of Melrose, Melrose, Minn., will on the 26th day of May, 1914, at 9 o'clock P. M., receive proposals for the furnishing of, F. O. B. cars, Melrose, Minn., one 100 K. W., 2,300 volt Engine type, 2 phase Alternator, direct connected to a suitable Engine. Specifications for the equipment are on file at the office of the City Clerk, Melrose, Minn., where they are open for inspection.

F. J. WEISSER,  
City Clerk.

**NOTICE TO CONTRACTORS, LETTING OF PLUMBING CONTRACT.****Humboldt, Iowa.**

Notice is hereby given that sealed bids for the installation of a complete system of plumbing in both the high school and grade buildings of the Independent school district of Humboldt, Iowa, will be received at the office of the Secretary J. E. Barker, Humboldt, Iowa, up to 7:00 p. m., May 25, 1914, at which time the board of directors of said district will let the contract for the same to the lowest and best responsible bidder.

Detailed specifications will be on file and ready for examination at the office of the Secretary after April 25, and all bids must be in conformity therewith. The board reserves the right to reject any and all bids.

Work must be begun on or before June 10, 1914, and completed on or before July 30, 1914.

(Signed) J. E. BARKER,  
Secretary.

**PUBLIC SCHOOL.****LeMars, Iowa.**

NOTICE is hereby given that sealed bids for furnishing and installing a steam heating and ventilating plant in the public school building at LeMars, Iowa, will be received on or before May 27th, 1914, at 6 P. M. Plans and specifications are on file at the office of R. J. Koehler, LeMars, Iowa. Each bid should be accompanied by a certified check for five (5) per cent of the contract price, payable to the board of education of the city of LeMars, and should be addressed to R. J. Koehler, Secretary, LeMars, Iowa. The Board of Education reserves the right to reject any and all bids.

I. J. McDUFFIE,  
President of the Board of Education.

(Continued on page 20.)



# CONTRACTORS BONDS AND EMPLOYERS LIABILITY INSURANCE

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**Hood & Penney Company, General Agents**

PHOENIX BUILDING,  
Minneapolis  
Minn.

## PROPOSAL ADVERTISING FOR BIDS

### BIDS FOR BRICK HIGH SCHOOL. New England, N. D.

Sealed bids will be received by W. N. Burud, Clerk, New England, N. D., up to the hour of 10 o'clock A. M., May 30, 1914, for the erection of a brick grade High School Building to be erected in the village of New England, Hettinger County, N. D.

All bids must be in strict accordance with plans and specifications prepared by Haxby & Gillespie, Architects, Fargo, N. D., and must be accompanied by a certified check for 5 per cent of bid, made payable to Dr. J. W. Strivling, chairman of the Board, as an evidence that the bidder will enter into contract if awarded the work.

Plans can be seen at the following places after May 15th: Builders' Exchanges, Fargo, N. D.; Bismarck, Minneapolis, St. Paul, and at the office of the Clerk and Architects.

If plans are wanted for personal use they can be had from the Architects for \$5.00 per set; plans to be returned to the Architects on the day of opening bids.

Bids will be taken at the same time and place and under like conditions for the Heating, Plumbing and Wiring of the Building.

The Board reserves the right to reject any or all bids.

By order of the Board.

DR. J. W. STRIVLING, President.

W. N. BURUD, Clerk.

HANBY & GILLESPIE, Architects,  
Fargo, N. D.

### SCHOOL, CLEVELAND, MINN.

The undersigned hereby gives notice that sealed proposals for the erection of School Building complete, including heating, ventilating and plumbing, including all labor and material, will be received by School Board until the hour of 2 P. M., on the 23d day of May, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by A. E. Green, of 1099 17th Ave. S. E., Minneapolis, which may be seen at the State Bank, Cleveland, on and after May 7, 1914, and may also be seen on

application to A. E. Green, 1099 17th Ave. S. E., Minneapolis, Minn.

Building to be completed by October 1, 1914.

A certified check for \$1,000.00, payable to the order of W. C. Davis, Treasurer, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the sum of 75 per cent of contract price, for the faithful performance of the contract.

The right is reserved to reject any or all bids.

(Signed) E. J. KRAMER,

Secretary Board,

Consolidated District No 2,

Le Sueur County, Minn.

Town Hall, Cleveland, Minn.,

### HEATING, VENTILATING AND PLUMBING FOR SCHOOL BUILDING.

Le Sueur Center, Minn.

Sealed proposals will be received by the Board of Education, Le Sueur Center, Minnesota, until Friday, May 22, 1914, at 2 o'clock P. M., for installing heating, ventilating and plumbing in the school building which is now being enlarged and remodeled, according to the plans and specifications prepared by H. C. Gerlach, Architect, Mankato, Minn. As now contemplated, the work covered by this notice must be completed not later than August 15th. Separate bids for heating and ventilating, and for plumbing will be considered. The bidders for plumbing must give separate bids for septic tank and piping outside the building. Each bid must be accompanied by a certified check for five per cent of the amount of the bid, payable to the Board of Education or the undersigned as secretary, as evidence of good faith. The checks of the unsuccessful bidders will be returned forthwith, and the check of the successful bidder will be returned when the contract is executed and a bond securing the same is given and approved. A surety company bond in the

full amount of the contract price will be required. Plans and specifications may be seen on and after May 11th at the office of the architect, at the office of the undersigned, and at the Builders' Exchange at Minneapolis and St. Paul.

The right is reserved to reject any or all bids.

Bids should be addressed to the undersigned, properly marked.

Dated May 1, 1914.

CHARLES C. KOLARS,

Secretary.

### SCHOOL.

Nora Springs, Iowa.

Sealed proposals will be received by the Independent School District of Nora Springs, Iowa, up to May 25, 1914, at 6 o'clock p. m., separate bids being desired as follows:

General Construction,

Heating,

Plumbing,

Electrical Work.

Plans and specifications for above may be procured from Architects Alban & Lockhart, 40 Chamber of Commerce Building, St. Paul, Minn., by depositing with them certified check for \$10.00, to insure prompt return of plans and that a bid will be submitted upon them. Checks will be returned to parties complying with these requirements. A certified check or bidders' bond, payable unconditionally to the undersigned, will be required with bids as follows:

General Construction, 3 per cent of bid.

Heating, 3 per cent of bid.

Plumbing, \$200.00.

Electrical Work, 5 per cent of bid.

Checks will be returned to unsuccessful bidders and to accepted bidder as soon as contract and bond are executed.

A Surety Company Bond for full amount of contract will be required of each contractor on building. The owners reserve the right to accept any bid or reject any or all bids.

H. F. SCHNEEDLER,

Secretary Board of Education.

(Continued on page 21)



SEND US YOUR PLANS  
Our figures cost nothing, and  
YOU WILL SAVE MONEY

## Don't Make a Mistake!

You Can Buy the Best Sheet Metal Work

such as Cornices, Steel Ceilings, Skylights,  
Ventilators, Gutters, Ridgings, etc., etc.,

Right Here at Home—No Wait, No Worry

**ST. PAUL ROOFING, CORNICE  
and Ornament Co.**  
ST. PAUL, MINN.



**BIDS WANTED FOR 23-MILE ROAD.  
State Rural Highway, Marshall, Minn.**

Notice is hereby given that on the 2d day of June, 1914, at two o'clock p. m., at the County Auditor's office, Marshall, Minnesota, I will sell the jobs of constructing State Rural Highway No. 54 of Lyon County, established by the Board of County Commissioners of Lyon County, State of Minnesota, by their order bearing date April 28, 1914, viz.: For the work as one job, and also for one or more sections of 100 feet each, and also for one or more of the construction jobs, each of said sections to be known and numbered by stakes as shown by the report of the Engineer in said matter, commencing at the one including the terminus, and from thence successively, to the one including the beginning to the lowest responsible bidder or bidders, and that bids are invited for said work; said work to be completed within the time required and in the manner specified, in said Engineer's report. And no bid will be entertained which exceeds more than thirty (30) per cent over and above the estimated cost of the construction, in any case as stated in the said order; and the successful bidder will be required to give a satisfactory bond, to be approved by the Auditor of said County, with two freehold sureties, for the faithful performance and fulfillment of his contract, and to pay all damages that may accrue by reason of his failure to complete the job within the time required in the contract and to pay all material and labor claims. The said order and estimates and profile are on file, and may be seen at my office.

The approximate amount of work to be done in the construction of such State Rural Highway is as follows:

**Grading.**

27,580 lineal feet of turnpiking; 97,890 cubic yards of excavation; 23 1/4 miles of construction dragging; twenty-foot roadway.

**Gravel Surfacing.**

19,880 cubic yards of gravel; eight-foot roadway.

**Corrugated Culverts.**

82 concrete culverts, containing approximately 520 cubic yards; 6 reinforced concrete culverts, containing approximately 200 cubic yards.

**Concrete Culverts.**

500 lineal feet 12-inch corrugated iron culverts.

**Railing.**

1,616 lineal feet wood hand rail.

**Length.**

Total length of road, 23 1/4 miles.

**Cost.**

Total estimated cost of construction, \$51,668.37.

All bids must be accompanied by a certified check, payable to the Auditor of said county, for not less than ten per cent of the amount of each bid.

The right to reject any and all bids is hereby reserved.

Dated at Marshall, Minnesota, this 30th day of April, 1914.

ERNEST S. SHEPARD,

Auditor,

Lyon County, Minnesota.

**NOTICE TO CONTRACTORS.**

School, Ely, Minn.

First. Sealed bids will be received by the School Board of the Independent School District No. 12, St. Louis County, Minnesota, for the erection and completion of a 24-room, fireproof building, up till two o'clock P. M., June 1, 1914.

Second. Each bid must be accompa-

nied by a certified check in the sum of five per cent of the bid, made payable to James Moonan, Treasurer of said Independent School District No. 12, as a guarantee that the bidder will enter into contract and give bond as required by law for the execution of same if he be awarded the contract.

Third. Contractors will be required to bid on blanks furnished by the Architect.

Fourth. Contractors contemplating bidding will be required to furnish the Sec- references with regard to their responsi- retary of the Board, Thos. E. Miller, bility, the names and addresses of three owners for whom they have erected buildings during the past three years. Also the name of the Bonding Company with whom they do business, these names to be furnished at least ten days before date of letting.

Fifth. Plans and specifications can be seen on file with Thos. E. Miller, Sec- retary School Board, Ely, Minn., with the architect, C. Howard Parsons, 601 Phoe- nix Bldg., Minneapolis, Minn., and in the St. Paul, Minneapolis and Duluth Build- ers' Exchanges.

Sixth. Contractors can secure a set of blue prints and specifications for their own use until the date of letting, if they qualify under the requirements of this advertisement with regard to responsi- bility by filing with Thos. E. Miller, Sec- retary, the information asked for in para- graph four of this notice.

Seventh. Blue Prints will be fur- nished by architect on telegraphic order of Thos. E. Miller, Secretary, for same.

Eighth. Bids will be addressed to Thos. E. Miller, Secretary School Board, Ely, Minn., and endorsed on envelope, Bid for Ely, Minn., School Building and marked according to the proposition on which bid is based.

Ninth. Bids will be received on the following propositions:

(A) Main Building, Boiler House, Stack and two subways complete.

(B) System of Plumbing complete.

(C) System of Heating and Ventila- tion complete.

(D) System of Electric Installation for both lighting and power.

(E) System of Vacuum Cleaning complete.

The Board reserves the right to reject any or all bids.

By order of the Board.

THOS. E. MILLER.

Secretary.

**NOTICE TO BUILDING CONTRACTORS**

School, Home for Feeble-Minded.

Chippewa Falls, Wis.

Sealed proposals will be received by the State Board of Control of Wisconsin, at its office in the Capitol Building, Mad- ison, Wisconsin, up to two o'clock, P. M., Wednesday June 3rd, A. D. 1914, for fur- nishing all the material and labor neces- sary for the erection and construction and completion of a school building at the Wisconsin Home for the Feeble- Minded, near Chippewa Falls, Wisconsin, according to the plans and specifications prepared for said work by Brust & Philip, Architects of Milwaukee, Wisconsin.

Plans and specifications will be on file in the office of the State Board of Con- trol of Wisconsin, Madison, Wisconsin; the office of Brust & Philip, Architects, Milwaukee, Wisconsin; the office of the Superintendent of the Home for the Feeble-Minded, Chippewa Falls, Wiscon- sin; the office of the Builders & Traders' Exchange, St. Paul, Minnesota; and the

office of the Builders & Traders' Ex- change, Milwaukee, Wisconsin.

Each proposal must be accompanied by a certified check in the sum of at least four per cent of the amount of the bid, and made payable to the order of Ralph E. Smith, President of the State Board of Control of Wisconsin, to be forfeited to the State of Wisconsin in case the bidder or bidders chosen fail to enter into a contract for said work and give a proper bond to secure the performance of the contract.

Bids should be sealed and enclosed in an envelope, which should be enclosed in another envelope, addressed to the State Board of Control of Wisconsin, Madison, Wisconsin, and upon the en- velope enclosing the sealed proposal should appear the name and address of the bidder, and marked, "PROPOSAL FOR SCHOOL BUILDING, CHIPPEWA FALLS."

The Board reserves the right to reject any or all bids or to accept any bid or combination of bids which it may deem most advantageous to the State.

The State Board of Control of Wiscon- sin has a limited number of plans and specifications which will be sent out to the bidders upon application, provided that a deposit of \$10.00 is made with the Board to secure the return of the plans.

Dated at Madison, Wisconsin, this 8th day of May, A. D. 1914.

STATE BOARD OF CONTROL OF WISCONSIN,

By Ralph E. Smith,

President.

**TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., May 9, 1914.**—Sealed proposals will be received at this office until 3 o'clock, p. m., on the 25th day of May, 1914, and then opened, for metal cases, basis, and drawers (drawing files), for the Office of the Supervising Architect, in accord- ance with this specification and the draw- ing mentioned therein, copies of which may be had at this office. O. Wenderoth, Supervising Architect.

**ADVERTISEMENT FOR BIDS.**

State Bridge, Shakopee, Minn.

Sealed bids will be received at the office of the County Auditor of the County of Scott, at the Courthouse in the City of Shakopee, Minn., until 11 o'clock A. M., July 13, 1914, for building State Bridge No. 1277 on State road No. 11 in the Town of Glendale in the County of Scott, State of Minnesota.

The superstructure will be 24-foot span, 20-foot roadway; concrete and gravel floor; on concrete foundations.

Distance from top of floor to bottom of foundations about 13 feet.

(A) Plans and specifications may be seen at the above office, or at the office of the State Highway Commission at St. Paul.

(B) Plans are to be submitted by the respective bidders, which shall comply with the specifications of the State High- way Commission dated 1912.

Each proposal must be accompanied by cash or a certified check for not less than 5 per cent of the amount of the bid, payable to the County Treasurer of said Scott County. All bids must be upon blank forms furnished by the under- signed.

The Board reserves the right to accept or reject any proposal.

A. J. MAYER,

County Auditor.

Scott County, Minnesota.

(Continued on page 22)



Employers' Liability Insurance  
Surety and Fidelity Bonds.

## FRED L. GRAY COMPANY

THE LARGEST AGENCY OF ITS KIND  
IN THE NORTHWEST

More than 50,000 personal  
injury cases handled for  
contractors and others  
since 1892.

Security Bank Bldg..

MINNEAPOLIS

### COUNTY JAIL. Montezuma, Iowa.

The undersigned hereby gives notice that sealed proposals for the erection of County Jail Building, including all labor and material, will be received by Board of Supervisors of Poweshuk County, Iowa, until the hour of 1 P. M., on the second day of June, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by Pauly Jail Building Co., of St. Louis, which may be seen at the office of County Auditor.

A certified check for 5 per cent of bid, payable to the order of County Auditor, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract

is awarded will be required to give a satisfactory bond in the sum of \$4,000 for the faithful performance of the contract.

The right is reserved to reject any or all bids.

(Signed) W. C. McKee,  
County Auditor.

Montezuma, Iowa,  
April 29, 1914.

### NOTICE FOR BIDS. Decorating, Etc.

Tyndall, S. D., Court House.

Separate sealed proposals, for the furnishing and installation of:

1. The Metal Furniture, Fixtures and Equipment;
2. The Wood Furniture, Fixtures and Equipment, and
3. The Interior Decorating

of the Bon Homme County Court House,

## PROPOSALS

at Tyndall, S. Dak., directed to C. E. Stoddard, County Auditor, Tyndall, S. Dak., and endorsed "Furniture" or "Decorating," as the case may be, will be received on June 9th, 1914, at 10 o'clock A. M. for the wood furniture and on June 10th, 1914, at 9 o'clock A. M. for the metal furniture and decorating.

Each bid is to be accompanied by a certified check in a sum equal to 5% of the contract price, made payable to C. L. Bohac, Treasurer. The checks of unsuccessful bidders will be returned after the award of contract, while those of the successful bidders will be returned after they have entered into contracts and furnished bonds, all of which shall be entirely satisfactory to W. W. French, State's Attorney.

Plans are on file at the office of C. E. Stoddard, County Auditor, Tyndall, S. Dak., and at the office of Joseph Schwarz, Architect, Sioux Falls, S. Dak.

Parties desiring the loan of a set of plans for their own use, for the purpose of figuring, can obtain them from the architect, upon a deposit of \$10.00, one-half of which will be refunded upon the return of said plans.

The sum set apart for the wood furniture is \$4,000.00 and for the decorating \$2,000.00.

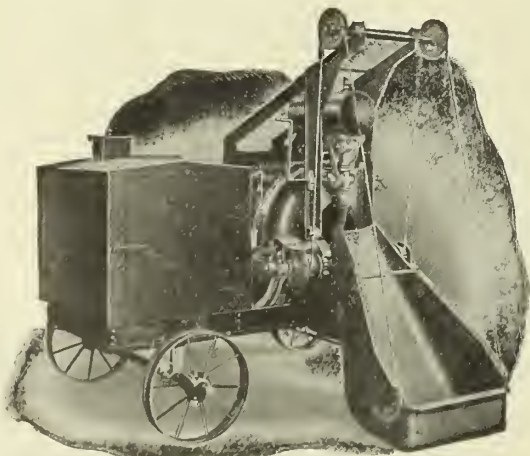
The County Commissioners of Bon Homme County, S. Dak., reserve the right to reject any or all bids.

C. E. STODDARD,  
County Auditor.

(Continued on page 23)

## Mixer Facts

Every Purchaser of Concrete Mixers Should Know the Importance of Thorough and Rapid Mixing, and the Durability of the Mixer.



### THE KOEHRING MIXER

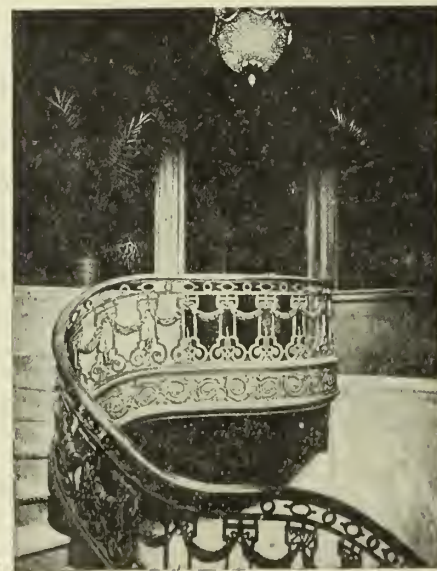
See These Machines. Four Different Sizes, Now in Stock, at Our Midway Warehouse.

Phone us for appointment today. N. W. Main 330; T. S. Annex 330. Get our New Year's Guarantee.

### KOEHRING MACHINE COMPANY

615-619 Germania Building Milwaukee, Wis.  
N. W. Branch Office, H. B. Jones, Dist. Mgr.,  
349-351 Security Bank Bldg. Minneapolis

## Ornamental Iron & Bronze



Stairs,  
Store  
Fronts,  
Elevator  
Enclosures  
Lamp  
Standards  
Mar-  
quises,  
Bronze  
Tablets

GATES, GRILLS, FENCING  
FIRE ESCAPES, BANK AND  
:: OFFICE FIXTURES

FLOUR CITY ORNAMENTAL  
IRON WORKS MINNEAPOLIS, MINN.



**NOTICE TO CONTRACTORS.  
City Hall and Fire Station.**

Sealed proposals will be received up to twelve (12) o'clock, noon, of the 10th day of June, 1914, for the labor and material necessary for the erection and completion of a two-story, brick City Hall and Fire Station, to be erected in the City of Hutchinson, Minn., and all to be in full accordance with plans and specifications therefor as prepared by C. E. Bell, Architect, 312 Security Bank Bldg., Minneapolis, Minn. Plans on file with F. N. Moore, City Clerk, Hutchinson, Minn., and at the office of the Architect on and after the 22d day of May, 1914. Proposals to be accompanied with a certified check in amount of five (5%) per cent of the bid and made payable to Geo. H. Sivwright, City Treasurer. Proposals must be addressed to F. N. Moore, City Clerk, and plainly marked, "Proposal for City Hall and Fire Station." The owner reserves the right to reject any or all proposals. Heating, Plumbing and Electric Wiring will be let at the same time but under separate contracts; 5 per cent certified check for each.

**NOTICE TO HEATING AND PLUMBING CONTRACTORS.**

**School House, Village of Sherburn, Minn.**

D. M. Reynolds, Secretary of Independent School District No. 68 of Martin County, Minn., will receive sealed bids until 8 o'clock P. M., on May 29, 1914, for the construction and installation of a Moline Vacuum Vapor Heating and Ventilating Plant for above building.

Also separate bids for the plumbing of said school building.

Plans and specifications can be seen at the Secretary's office in Sherburn, Minn., and at the Builders' Exchange, Minneapolis, Minn.

A certified check of 5 per cent of bid, made payable to Secretary, must accompany each bid.

The right reserved to reject any or all bids.

Bids will be opened at 8 o'clock P. M., at Sherburn, Minn., May 29, 1914.

D. M. REYNOLDS,  
Secretary Board of Education.

**SEWAGE PURIFICATION PLANT.**

**State School for Feeble-minded, Faribault, Minn.**

Sealed proposals will be received by the State Board of Control at their office in the State Capitol Building, St. Paul, Minn., until 2 p. m., Monday, June 1, 1914, for Sewage Purification Plant, State School for Feeble-minded, Faribault, Minn., in accordance with the plans and specifications of Charles L. Pillsbury Co., Engineers, 805-811 Metropolitan Life Building, Minneapolis.

Bids are to be submitted only on form supplied by the Engineers. No other form of bid will be considered. Bids are to be accompanied by certified checks for five per cent of the amount of bid, payable to the State Board of Control, which check will be returned when contract is executed.

Copies of the above plans and specifications may be seen at the Superintendent's office, State School for Feeble-minded, Faribault, Minn.; at the Builders' Exchange, Minneapolis; at the Builders' Exchange, St. Paul, at the office of the Board of Control, and at the office of the Engineers. Extra copies of plans and specifications may be obtained on application to the Engineers on payment of cost of duplication. Successful bidder must furnish the board with a surety bond in 75 per cent of

amount of contract. The right is reserved to accept or reject any or all bids.

**NOTICE TO CONTRACTORS.  
SEWERS.**

Sealed proposals will be received at the office of the City Auditor of the City of Mitchell, South Dakota, until 8 o'clock p. m., June 1, 1914, for the construction of lateral sewers, including labor and material in said City of Mitchell, as follows:

Branch "AC," Sewer District No. 2—Approximately 832 feet 8-inch pipe, 2 manholes.

Branch "AD," Sewer District No. 3—Approximately 547 feet 8-inch pipe, 1 manhole.

Branch "AE," Sewer District No. 1—Approximately 367 feet 10-inch pipe and 1,675 feet 8-inch pipe; 5 manholes.

Branch "AF," Sewer District No. 2—Approximately 1,185.9 feet 8-inch pipe, 2 manholes.

Branch "AG," Sewer District No. 2—Approximately 1,331 feet 8-inch pipe, 3 manholes.

All complete and connected with existing sewers.

All work to be done in accordance with plans and specifications on file in the office of the City Engineer.

All bids must be accompanied by a certified check upon some solvent bank in the City of Mitchell or a draft made payable to the City Treasurer of said city, in the sum of five per cent of the amount of the bid, to insure the signing of the contract and furnishing of proper and acceptable bond in the amount of twenty-five per cent of contract price within eight days from time of notification of the award of said contract.

The City Council reserves the right to reject any or all bids.

Dated at Mitchell, South Dakota, this 8th day of May, 1914.

N. H. JENSEN,  
City Auditor.

**NOTICE FOR BIDS FOR WATERMAIN.  
Hopkins, Minn.**

Sealed bids will be received at the Recorder's Office of the Village of West Minneapolis (Hopkins Postoffice) Hennepin County, Minnesota, until 7:30 o'clock p. m., of Tuesday, June the second, 1914, for the laying of an eight (8) inch water main from Seventh Avenue on Excelsior Avenue East—about 1,500 feet.

Also a six (6) inch water main to be laid on Seventh Avenue from Excelsior Avenue north to Second Street North—about 1,200 feet.

Two hydrants are to be placed on each run of pipe. Further information may be obtained from the undersigned village recorder at Hopkins, Minn.

Each proposal must be accompanied by cash or a certified check for not less than five (5) per cent of the amount of the bid, payable to the Village Treasurer, H. F. Moore.

The council reserves the right to reject any and all bids.

E. A. CLOSE,  
Village Recorder.

**PROPOSAL FOR ADDITIONS TO WATER WORKS SYSTEM FOR THE CITY OF ALEXANDRIA, DOUGLAS COUNTY, MINN.**

Sealed proposals will be received until 7:30 p. m., Monday, June 1st, at the office of the City Clerk, Mr. C. J. Sundblad, and opened immediately thereafter. The plans and specifications are on file and can be seen at the office of C. J. Sundblad, City Clerk, Alexandria, Douglas County, Minn., and in the office of J. F. Druar, the Oscar Claussen Engineering

Co., 312-316 Commercial Building, St. Paul, Minn., or additional copies may be had from the engineer at \$3.50 per set to cover the cost of reproduction of same.

The plans and specifications are the property of the City of Alexandria, Douglas County, Minn., and must be returned at the letting together with the bids or the bids will not be considered.

The work is to consist of Division No. 1, Pump House and Accessories; Division No. 2, approximately 300,000-gallon capacity reinforced concrete reservoir and Accessories, together with Pipe Line connection to present system; Division No. 3 being Pump and Motor and Accessories with optional bids on same; Division No. 4 being a Drilled Well, 16 inches, 20 inches or 24 inches in diameter and Division No. 5, optional, being Reinforced Concrete Dug Well and Accessories. All work on the above to be furnished and installed complete together with all accessories ready for continuous use and successful operation and to be finished in accordance with the plans and specifications.

A certified check in the amount of \$1,000.00 must accompany the proposal for the entire work; one or more divisions shall be accompanied by a certified check for \$200.00 for each division bid upon. These checks are to be made payable unconditionally to C. J. Sundblad, City Clerk, as a guarantee of good faith on the part of the contractor that he will enter into a contract for the price bid if his proposal is accepted by the City of Alexandria, Douglas County, Minn. The City of Alexandria, Douglas County, Minn., through its officers reserves the right to reject any or all bids.

MR. LOUIS GINTHER, Mayor.  
C. J. SUNDBLAD, City Clerk.

**STORE AND HALL.  
Windom, Minn.**

The undersigned hereby gives notice that sealed proposals for the erection of store and I. O. O. F. hall, including all labor and material, will be received by the undersigned at Windom, Minn., until the hour of 4 p. m., on the second day of June, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by Albert Schippel, Architect, of Mankato, Minn., which may be seen at the office of the architect on and after May 18, 1914, and may also be seen on application to Strunk-Sherwin Co., Windom, Minn., and the St. Paul and Minneapolis Builders' Exchange.

A certified check for \$200.00, payable to the order of A. F. Strunk, Secretary of Building Committee, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the sum of full amount of contract price for the faithful performance of the contract.

The right is reserved to reject any or all bids.

(Signed) A. F. STRUNK,  
Secretary Building Committee,  
Windom, Minn.  
ALBERT SCHIPPEL,  
Architect.

**WANTED.**

Superintendent of construction of fire-proof building wanted. Must be a hustler, of good character and come well recommended. State salary wanted.

WESTERN CONSTRUCTION CO.,  
Iowa City, Iowa.

(Continued on page 24)



LINFELT should be your first thought this spring in building that new home—or remodeling the old one. We know you want COMFORT above all things. Get it. Use Linofelt. Actual tests show it to be 38 times more efficient than building paper. The difference in initial cost will be made up the second winter in fuel saved; and more, you are sure of what you are after—COMFORT. We make every form of insulation preventing cold or heat from going through walls, floors or roofs. Write for illustrated booklets.

**UNION FIBRE COMPANY, -- WINONA, MINNESOTA**

### PROPOSAL ADVERTISING FOR BIDS

#### NOTICE TO CONTRACTORS.

**Masonic Building and Store Building at Wausa, Nebraska.**

The undersigned hereby give notice of the sealed proposals for the erection of a Masonic Building and the H. E. Johnson store building, to be erected adjoining each other in Wausa, Nebraska. Bids are to be made separately for each of the buildings, and will be opened by the building committee and H. E. Johnson, on the first day of June, 1914, at 3 P. M. All bids must be in strict accordance with the plans and specifications prepared by J. E. Baggstrom of Wausa, Nebraska.

A certified check for \$250.00 payable to P. H. Peterson, chairman of building committee, must accompany bid for Masonic Building, and check for \$150.00 payable to H. E. Johnson must accompany bid for his building to be forfeited in case the bidder should refuse to enter into contract and furnish a satisfactory bond for the faithful performance of the contract. Plans for each building can be seen at architect or owners and copies may be obtained by a deposit of \$10.00, which sum will be returned when same are returned in good condition.

Bids for Masonic Building will be addressed to P. H. Peterson and for store building to H. E. Johnson, at Wausa, Nebraska.

Both parties reserve the right to reject any or all bids.

P. H. PETERSON.  
H. E. JOHNSON.

#### TWO ROOM SCHOOL BUILDING. Foreston, Minn.

Sealed bids will be received by the School Board of District No. 11, at Mille Lacs County, Foreston, Minn., until 11:00 A. M., on Monday June 1st, for the erection of a two room school building, and the installation of a heating plant.

Plans and specifications can be seen on and after May 18th in the Builders' Exchanges of both St. Paul and Minneapolis, Minnesota, and the same may be obtained from the Architect, Rolland C. Buckley, St. Cloud, Minn., upon the deposit of fifteen (\$15.00) dollars, which

will be refunded to the Contractor when the plans are returned with a bid.

A certified check for 5 per cent (5%) of the amount of the bid, made payable to Mr. C. O. Schwartz the Clerk, must accompany each bid as a guarantee. The same to be returned to the unsuccessful bidders, immediately upon the letting of the Contract. The party to whom is awarded the Contract will be required to furnish a surety bond for the entire amount of their bid.

All bids shall be sealed and addressed to Mr. C. O. Schwartz, Clerk of School Board at Foreston, Minnesota.

The Board reserves the right to reject any or all bids.

By order of School Board,  
C. O. SCHWARTZ, Clerk.

#### NOTICE TO CONTRACTORS.

**School, Batavia, Iowa.**

Sealed proposals for the erection of a 2-story and basement brick school house at Batavia, Iowa, according to plans and specifications by G. W. Kerns, architect, Ottumwa, Iowa, will be received by the undersigned up to 12 o'clock, May 30, 1914. A certified check of \$900 must accompany each bid. The right to reject any and all bids is reserved by the school board.

Independent School District, Batavia, Iowa.

MR. CHAS. FRESCOLN,  
President.

#### SEWERS, LAKEFIELD, MINN.

NOTICE IS HEREBY GIVEN, That sealed proposals for the construction of a sanitary sewer and purification plant in the Village of Lakefield, Jackson county, Minnesota, pursuant to Section 7, of Chapter 312 of the General Laws of Minnesota for 1903, will be received by the Village Council of the said Village of Lakefield until Tuesday, June 9, 1914, at 8 o'clock P. M.; and that said proposals will be opened for consideration by the said Village Council at 8 o'clock P. M., on Tuesday, June 9, 1914, at the Council Chambers in the Village Hall in said Village of Lakefield.

All proposals must be accompanied by

a certified check, payable to H. A. Rost, Village Treasurer, or cash, for at least 15 per cent of the amount of the bid; be securely sealed; be endorsed upon the outside wrapper with a brief statement or summary as to the work for which the bid is made; and be directed to R. J. Hill, Village Clerk, Lakefield, Minnesota.

All proposals shall be upon a basis of cash payment for the work.

Plans and specifications of the proposed work are on file and may be seen at the office of the Village Clerk of said Village of Lakefield. Copies of such plans and specifications may also be seen at the Builders' Exchanges at St. Paul, Minn.; Minneapolis, Minnesota, and Fargo, N. Dak.; and also at the office of Engineer J. A. Rowat, Willmar, Minn.

The work to be done, is as set forth in the said plans and specifications, and is approximately as follows:

2,588 feet of 15-inch sewer.  
3,004 feet of 12-inch sewer.  
2,440 feet of 10-inch sewer.  
11,296 feet of 8-inch sewer.

Settling tank and sledge bed and buildings therefor.

The Village Council reserves the right to reject any and all bids.

By Order of the Village Council,  
(Seal.) R. J. HILL,  
Village Clerk.

#### UNIVERSITY FARM.

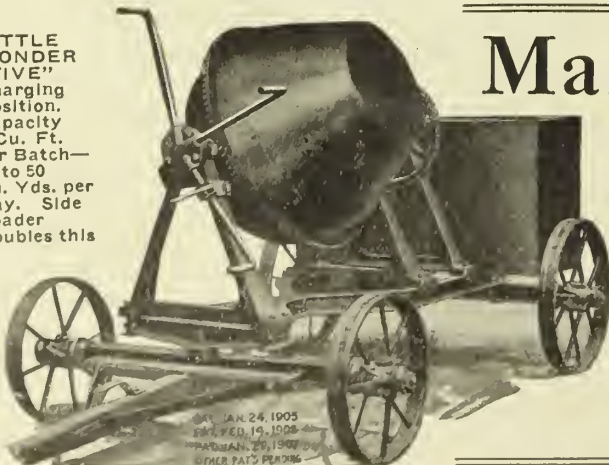
**Minneapolis, Minn.**

Sealed proposals will be received up to 2 p. m., May 25, at the office of G. H. Hayes, comptroller, University of Minnesota, for addition to the University Farm heating plant. Plans will be on file May 18 at the engineering offices, University Farm, offices of Professor J. J. Flather, and G. A. Sandberg, purchasing officer. A certified check for 2 per cent and bonds of 75 per cent required. Right reserved to reject any or all bids.

G. H. HAYES, Comptroller,  
University of Minnesota.

(Continued on page 25.)

LITTLE  
WONDER  
"FIVE"  
Charging  
Position.  
Capacity  
5 Cu. Ft.  
per Batch—  
35 to 50  
Cu. Yds. per  
Day. Side  
Loader  
Doubles this



## Make These Profits

First—50 cts. per cu. yd. over hand mixing, which pays for the mixer in 12 days. Second—TEN DAYS' FREE TRIAL, which cannot be expressed in dollars, but guarantees satisfaction. Third—Quality that insures durability and saves breakdowns and loss of time—all equivalent to profits.

### WONDER MIXERS

are known nationally and indorsed by thousands of contractors as the only logical choice. You ought to know why before you decide on a mixer—and, remember, you must be satisfied before you buy, or we pay the freight.

**WATERLOO CEMENT MACH'Y CORP'N, Mfrs.**

220 Vinton St., Waterloo, Iowa

**HALE CONCRETE MACHINERY COMPANY, AGENTS,**

1042 McKnight Bldg., Minneapolis, Minn.



shortly on the construction of the new Ashland county court house; fireproof, rick construction, Bedford stone facing, 3-story, 84x125, tile roof, tile floor, marble wainscot, passenger elevator, steam heat; cost \$125,000; has commenced taking bids on the construction of a new bank building for the Horicon State Bank at Horicon, Wis.; fireproof, brick and stone construction, 2-story, 50x90, steam heat.

Architects Siebert & Bruecker are preparing plans for remodeling and addition to building of J. Gollen at 7th and Walnut sts.; store and two flats, 2-story and basement, 25x54, solid brick, costing \$5,000; have awarded on duplex of Mrs. H. Salentine, 594 Walker st., general contract to E. K. Nye; painting open; have awarded on Neubauer flat additional; heating, L. J. Mueller Co.; sheet metal, H. E. Schaetzke.

The Badger Architects, 916 Walnut st., are taking bids on a duplex for R. Malnekoff, 53d and Washington blvd.; frame, brick foundation, 24x52, oak finish, furnace heat, cost \$7,000; ready for bids May 15, on a duplex for Max Goodsitt, at 15th and Lloyd sts.; frame, 2-story, brick foundation, 22x50, furnace heat; preparing plans for alterations on cottage of Podolsky at 10th and Lee sts., making frame duplex, 27x29.

Architect R. E. Oberst, 353 National av., is taking figures on a residence, 15th and National, owner's name withheld; frame, brick foundation, 26x54, tile floor, hot water heat; cost \$6,000; has awarded on 6-family flat for Schaefer & Co., at 26th and National; carpenter, T. Z. Czwelski; concrete and cement, Esau-Kroening Construction Co., iron work, C. Hennecke Co.

Architect Chas. Tharinger, 2324 State st., has awarded on Oppen flat at 35th and State sts.; sheet metal, O. P. Schmidt; heating, J. Blodgett; electrical, Piepkorn-Henning; painting, Wm. Grener; commenced taking bids on residence for Wm. Hottenson, in Story Hill; frame and stucco, brick foundation, 33x32, 2-story, tile floor and wainscoting, hot water heat.

Architect Aug. Hinz, 396 20th av. taking figures on a residence at 1033 Weil st. for Wm. Kzeski; frame, brick foundation, 22x34, hot water heating; is preparing preliminary plans for a church and convent, owner and location withheld; to be of solid brick, 4-story and basement, 40x80, tile, steam heat, vacuum cleaning, ventilating; cost \$22,000.

## DES MOINES, IOWA

Bert N. Mills, representative, 310 Hubbell Building.

*Items marked with asterisks not in Daily Sheets.*

Jewell, Stanhope, Stratford and Dayton, are north central Iowa towns to be supplied with electricity by a high tension line which the Fort Dodge, Des Moines & Southern inter-urban proposes to build from Frasier to Jewell at a cost of \$40,000. The distance is about 40 miles.

The Des Moines Railway & Light Co. has changed its name to the Central Iowa Light Co. and increased its capital stock from \$500,000 to \$1,000,000, to provide funds for a heating plant in Des Moines and power transmission line, Des Moines to Oskaloosa.

The Des Moines city council this week passed resolutions of necessity for the repaving of East Grand av. for a distance of 26 blocks; the estimated cost is \$150,000; concrete, asphalt, or a combination of the two will be used.

### BIDS WANTED.

#### Sewer System, Armour, S. D.

Sealed proposals will be received at the Office of the City Auditor, Armour, South Dakota, up to 8 o'clock p. m., on the 3rd day of June, 1914, for furnishing all tools, labor and material used to construct a complete system of sewerage, in accordance with the plans and specifications on file in the Office of the City Auditor, Armour, South Dakota, and at the Office of the Engineer, Yankton, South Dakota. Such bids, or proposals shall be made upon printed forms to be furnished by said city auditor and shall be accompanied by a bond with two or more sureties, as provided by Section 1343 of the Political Code of South Dakota, for at least fifty per cent of the amount of the bid. Said bond to be made payable to the City of Armour, South Dakota, to be approved by the City Council and conditioned upon the faithful performance of the contract and as a guaranty that the successful bidder will sign a contract for the work, otherwise said

bond to be forfeited to the City as liquidated damages.

The City reserves the right to reject any and all bids.

RUEL E. DANA,  
Mayor.

J. C. PERKINSON,  
City Auditor.

W. L. BRUCE,  
Engineer, Yankton, South Dakota.

### ADVERTISEMENT FOR BIDS.

#### Road Culverts, Shakopee, Minn.

Sealed bids will be received at the office of the County Auditor of the County of Scott, at the Courthouse in the City of Shakopee, Minn., until 10 o'clock A. M., July 13, 1914; for culverts to be used in construction of State roads in Scott County for the year 1914.

Bidders must accompany their bids with a chemical analysis of the material offered.

The Board reserves the right to accept or reject any proposal.

A. J. MAYER,  
County Auditor, Scott County, Minnesota.

Architect Machlan has prepared plans for improvements on the Sampson M. E. church, E. 26th and Capital av., which will increase the seating capacity to 500; two balconies will be added.

Commercial club of Ida Grove, is campaigning for \$20,000 hotel; C. M. Nagel of Sioux City has agreed to furnish \$10,000 for equipment and manage it.

Business men of Bonaparte and Keosauqua in Van Buren county are making plans to establish creameries; W. B. Barney, state food and dairy commissioner.

Citizens' National Bank of Des Moines will spend \$50,000 to remodel the first floor and basement of its building at 6th and Walnut; Geo. M. Pearsall, cashier.

Northwestern has authorized a new freight car repair yard at Clinton to cost \$100,000; it will cover a block of ground west of the passenger engine house.

Des Moines Silo Manufacturing Co. has closed a contract for \$100,000 worth of silos, to be delivered to Finley, Durham & Brodie of South Africa.

## FARGO, N. D.

VICTOR H. LEEBY,  
Builders' and Traders' Exchange.

Hancock Bros., architects, Fargo, have filed at the Builders' & Traders' Exchange, plans for a 2-story residence for W. L. Stockwell of Fargo.

Contract for brick to be used in the Idelkope Bros. building, was awarded to Victor H. Leeb; Tom Powers contractor.

Under Jordan resolution for municipal market, city engineer Anders will have charge and supervise construction.

Fire damaged Bland & Bland hardware store, \$17,000, building owned by President Emery of city commission.

Barn is being razed in preparation for building the W. I. Ball garage; cost \$50,000.

## SIoux CITY, IOWA

Sioux City Office: 310 Iowa Building. R. V. Sager, Representative.

Beuttler & Arnold, architects, Security building, are drawing plans for a bungalow for Dr. J. E. Garver at 19th and Nebraska sts.; 30x50, frame, cost about \$5,000; they are also drawing plans for an apartment house for Mrs. Sloan at 2422 Pierce st.; 2-story and basement, frame, 2 or 3-family flat; cost about \$7,000.

Bids will be opened on the plumbing and heating for the store building for G. S. Delaplane at Cherokee, Iowa, on May 25; Buettler & Arnold, architects, Security building taking bids; they will also open bids for the plumbing and heating for the garage for Geo. C. Call on May 16.

Wm. L. Steele, architect, United Bank building, is drawing plans for a school building for the Sacred Heart parish at Spencer, Iowa; Rev. B. A. Hunt, pastor; 40x64; 3-story and basement, brick; cost about \$20,000.

Wm. L. Steele, architect, United Bank building, is drawing plans for a residence for Dr. Cornelius De Bey at Orange City, Iowa; it will be modern throughout and of frame construction.

The general contract for reconstructing building for J. A.

### BIDS FOR MOTOR FIRE TRUCK.

Sealed bids will be received by the undersigned to be opened before the city council of the city of Bemidji, Minn., at a regular meeting to be held on Monday, May 25, 1914, at 8 o'clock P. M. for one motor fire truck.

Full information as to plans and specifications can be obtained from the undersigned.

The right to reject any or all bids is reserved.

Certified check in the amount of 10 per cent bid, on some bank in Bemidji, required.

GEO. STEIN,  
City Clerk.

### BOILER FOR SALE.

For Sale—One No. 640 Burnham Boiler rated 3,400 feet, price \$110.00. In good condition. One No. 319 A. Burnham Boiler, price \$25.00, rated 550 feet.

Box 750, The Improvement Bulletin.

Work Wanted—Non-union steamfitter. Can estimate and lay out work. Box 700, The Improvement Bulletin.



# AMERICAN BRIDGE COMPANY

## OF NEW YORK

**B**UILDERS of steel structures of all kinds, including mining and manufacturing buildings, power plants, towers and tanks, bridges and viaducts, turntables for locomotives and automobiles. roofs, trusses, girders and steel frames for business buildings.

Stock carried at Minneapolis includes a large supply of structural steel, consisting of beams, channels, angles and plates. Orders requiring quick delivery can be filled promptly.

Estimates will be gladly furnished and all inquiries will receive careful attention.

Office and Works 7th Ave. and 2nd St. S. E., Minneapolis, Minn.

Duluth Office  
Wolvin Bldg.

## The Youngstown Iron & Steel Co.

### YOUNGSTOWN, OHIO

MANUFACTURERS OF  
Expanded Metal for Concrete Reinforcement  
Expanded Metal Lath for Plastering Purposes  
Metal Studding, Furring Strips, Etc.  
for Use with Expanded Metal Lath.  
"Mahoning" Brand Expanded Metal  
in Gauges No. 7 to 12 Inclusive.  
"Youngstown" Brand Expanded Metal  
in Gauges Nos. 7 to 20 Inclusive.  
SEND FOR CATALOGUE

## Landers-Morrison-Christenson Co.

Agents for Minnesota and North and South Dakota  
Lumber Exchange Building, Minneapolis, Minn.

## The Fort Garry Hotel

### WINNIPEG CANADA



3,000 Tons of Steel Furnished and Erected by

**Minneapolis Steel & Machinery Co.** Minneapolis Minnesota

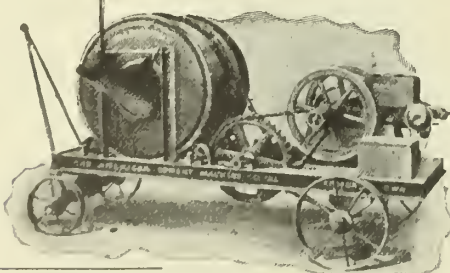
## Davenport Machine & Foundry Co.

### 1618-44 West Fourth St. Davenport, Iowa

# STRUCTURAL

**Steel and Cast Iron** Steel and Cast Columns, Steel Girders, Roof Trusses, Stairways and Fire Escapes. Beam Channels and Angles  
:: CARRIED IN STOCK ::

## IT'S A "BOSS" MIXER!



Handy to get around with. Mixes 60 yds. of concrete a day.

Five foot capacity BOSS mixer on steel truck with 3 h. p. gasoline engine

\$198.00

BOSS mixer, fitted with side loader and hoisting drum, \$288.00  
I also sell Austin cube mixers, Coltrin mixers, gasoline engines & cement block machines  
**NELS ERICKSON** 405 BOSTON BLOCK Minneapolis, - Minn.

Sand - Lime  
Common Brick  
Face Brick

Partition  
TILE  
Packing

**BELT LINE BRICK COMPANY** 512 ANDRUS BUILDING MINNEAPOLIS, - MINN.

Ricketson's  
MINERAL COLORS

Made Famous

the Slogan:

For Mortar, Brick, Cement, Stone, Etc., Red Brown, Buff, Purple and Black.

Ricketson's Mineral Paint Works, Milwaukee, Wis.





Magoun Jr., has been awarded to Coomer & Small for \$15,000; Beuttler & Arnold, architects, Security building.

The general contract for duplex for Miss Johanna Hansen was let to T. W. Thompson for \$5,100; Geo. W. Burkhead, architect, Grain Exchange building.

The plumbing contract for the residence for Chas. Hess was let to J. F. Gearen for \$400.

## OMAHA, NEB.

### Building Permits.

Walter Dudzinski, 2913 S. 25th, frame dwl.....	2,500
H. P. Van Dercreek, 4605 N. 24th st., frame dwl.....	2,500
Harry A. Wolf, 2114 Chicago, frame dwl.....	2,000
Rosaria Coniglia, 5105-9 N. 24th, frame dwl., each.....	2,250
T. E. Kone, 3164 Fowler av., frame dwl.....	2,000
United States Nat. Bank, 1602-10 Farnam, brick.....	280,000
K. Barathy, 1612 Military av., frame dwl.....	3,500
Frank Stewart, 3015 Manderson, frame dwl.....	2,500
Frank Kulhanek, 711 Pine, frame dwl.....	4,500
Julius Madsen, 1510 S. 13th st., frame dwl.....	2,000
Sam S. Whiting, 1320 C st., brick veneer house.....	6,500
C. Hohnquist, 2233 C st., frame dwl.....	2,000
C. D. Woods, 2043 Worthington st., frame dwl.....	3,500
Erwin Herpolsheimer, 2225 St. Mary's st., frame house.....	2,000
J. T. Johnson, 1519 E st., brick house.....	6,000

Building permits for April show a \$20,000 gain, including permit for \$280,000 U. S. National Bank building; permit for Fontenelle hotel will be issued soon.

Rudolph Beal this city, who built 24 houses, on Leach farm along the Missouri, will build 20 more cottages, electric lights, garage, fishpond.

Gilinsky Co. will build large fruit house, 132x132, banana storehouse in basement; offices, dry storage; six floors of cold storage.

Omaha Grain Exchange has decided on \$200,000 exchange building; W. J. Hynes, president.

## WINNIPEG, MAN.

*Items marked with asterisks not in Daily Sheets.*

Guilbault Co., of St. Boniface, secured contract for Street building in St. Vital, to amount of \$75,000.

Lewis Greenslade of St. Boniface will erect two residences to cost \$8,000 on Tache av.

City asks tenders for concrete and asphalt pavements to cost about \$32,000.

Tenders wanted to June 15 by chairman board of control for supply of street name posts and name plates.

Tenders wanted to June 20, by B. Cote, secretary-treasurer, St. Boniface, Man., for superstructure, Provéncher av. bridge, over Red river.

Marcus Loew, New York, who recently purchased the Sullivan-Considine theater circuit, states plans are being prepared for \$500,000 theater to replace the Empress here.

Permits: J. D. Reid, dwelling, Lorne st., \$4,200; J. D. Reid, dwelling, Oak av., \$3,600; F. J. McGreevey, dwelling, Dufferin st., \$3,000; H. J. Smith, bakery, Morley st., \$3,000; B. Sragge, warehouse, Princess st., \$2,500; B. McDiarmid, dwelling, Niagara st., \$10,000; W. P. Wallace, dwelling, Kingsway av., \$15,000; Public Press, addition to building, Sherbrooke st., \$10,000; F. Heap, six stores, Ellice and Beverly, \$8,000; J. Rosenthal, warehouse, \$2,000; J. Relki, dwelling, \$2,000; A. Heilig, apartment block, Elm st., \$70,000; North Winnipeg Construction Co., apartment block, Manitoba and Aikens st., \$35,000; Saunders & McMillan Co., three residences, Lipton st., \$9,000; W. A. Clark, two dwellings, Lipton st., \$6,000; C. S. Bridgman, dwelling, Waterloo av., \$16,500; J. C. Hicks & Son, dwelling, Ash st., \$15,000; McGillvray & Marshall, three dwellings, Lansdowne av., \$9,000; G. Eggertson, two dwellings, Ingersoll av., \$5,600; J. M. Finlay, dwelling, Inkster av., \$3,500; J. W. Parker, dwelling, corner Rathgar and Daly st., \$3,500; J. F. Scribner, dwelling, Rosser av., \$3,000; W. L. Copping, dwelling, Jubilee av., \$3,000; J. Meder, two dwellings, Atlantic av., \$3,000; J. Bodner, dwelling, Aberdeen av., \$2,000; R. Gervin, dwelling, Kylemore av., \$2,000.

The following permits were issued: Ames, Holden, McCready Co., brick and stone warehouse, southeast corner Adelaide and McDermot, \$100,000, and J. D. Atcheson, is architect, and Lynall, Mitchell Co., contractors; the Broadway Baptist church, south side Boardway, \$31,000; Jordan & Over, are the architects, and Claydon Bros., contractors; builders' association of N. Winnipeg, clubhouse, \$25,000, Selkirk av.; G. Pacharda, five dwellings, Galloway, \$12,500; H. Ginsberg, three dwellings, Spruce av., \$10,500; H. J. G. Morgan, two dwellings, \$8,000, on Rosser av.; J. A. Davidson, dwelling, Ida av., \$6,000; W. S. Armstrong, two dwellings, Hetherington av., \$6,000; G. Helford, dwelling, corner Nassau

and Roslyn, \$3,500; C. Polec, dwelling, Redwood av., \$2,900; W. E. Wedley, dwelling, Spruce av., \$2,800; J. Alytyki, dwelling St. John's av., \$2,500; A. Boroditsky, dwelling, Dufferin av., \$2,000; Can. Syndicate Investment Co., two dwellings, Lincoln and Riverton av., to cost \$3,600; D. H. James, dwelling, Ruby st., \$5,000; J. Weldon, dwelling, Ashland st., \$4,500; H. Persch, two dwellings, Parr st., \$3,600; Morris, Miles & Co., three dwellings, Sherburn st., \$6,600; A. Wilson, dwelling, \$4,000; A. Wilson, dwelling, Lansdowne av., \$4,000; residential Builders Ltd., dwelling, Lipton st., \$3,000; Residential Builders Ltd., dwelling, Garfield, \$3,000; J. Watson, two dwellings, \$7,000 J. Stovel, dwelling, Hargrave st., \$3,000.

The following permits were issued in Transcona, Man., Thornsteinson Bros., four cottages, \$5,600; James Fairlie, dwelling, \$1,300; A. McNamara, four cottages, \$3,000; F. G. Davidson, two dwellings, \$4,000; Mach Lecuyer, dwelling, \$1,800; Prior & Hales, two cottages, \$2,000.

Council of Fort Garry municipality will meet two consulting engineers shortly, to make final arrangements for installation of trunk sewers, all through district this summer.

Rev. G. Horrobin, rector St. Judes' church, stated intention of the congregation to erect a new church to cost \$20,000.

## STREET AND ROAD WORK

*Notes arranged alphabetically by States.*

*Items marked with asterisks not in Daily Sheets.*

**Ida., Boise City**—State highway commission will soon advertise for bids for construction of county roads to cost about \$250,000.

**Iowa, Adel**—Hearing June 15 on sheet asphalt paving of various streets; Vic. T. Sweeley, city clerk.

**Iowa, Davenport**—Hearing May 20, on grading, paving and curbing various streets and alleys; estimated to cost \$29,216; Hugo Moeller, city clerk.

**Iowa, Des Moines**—Hearing May 27 on curbing and paving of W. 1st st., etc., paving with No. 1 vitrified brick on a 6-inch concrete foundation; Horace Susong, city clerk.

**Iowa, Dubuque**—Hearing May 14 on alléy improvement, 7,140 square yards brick block paving, estimated to cost \$16,302; also, on alléy improving requiring 6,275 square yards, brick block paving, estimated to cost \$13,805; J. J. Shea, city recorder.

**Iowa, Eddyville**—Plans being prepared for 5 blocks concrete paving; address city clerk; M. G. Hall, engineer, Centerville.

**Iowa, Estherville**—Hearing June 15 permanent sidewalks on various streets; N. B. Egbert, city clerk.

**Iowa, Iowa City**—Hearing June 5, on paving various streets in the residence district, either with vitrified brick, bitulithic, sheet asphalt or fibre brick; address city clerk.

**Iowa, Manning**—P. A. Edquist, civil engineer, Omaha, Neb., will prepare plans and specifications for paving; address city clerk.

**Iowa, Tabor**—Resolutions adopted by council ordering sidewalks, curb and gutter; A. E. Watts, city clerk.

**Iowa, West Union**—M. Tschirgi & Sons, Dubuque, surveying for proposed paving; address city clerk.

**Minn., Blue Earth City**—Hearing May 13, on about 25,000 square yards, paving, when report and recommendations will be made by E. T. Abbott, 425 Kasota block, Minneapolis.

**Minn., Cloquet**—Council has authorized paving of Cloquet av., also curbing of the same; address city clerk.

**Minn., Detroit**—The county board is contemplating purchase of road machinery; W. J. Morrow, auditor Becker county.

**Minn., Halstad**—This place will build about 20,000 feet cement walks this summer; address village clerk.

**Minn., Rochester**—Hearing May 25 on paving and curbing of College st., 30 feet wide in two courses of concrete; Thos. O'Sullivan, city clerk.

**Minn., St. Cloud**—City commission has outlined a program for paving which includes 6th av. S., 1st st. south, 1st st. N. and 6th av. N.; address city clerk; plans to be drawn by C. H. West, city engineer.

**Mont., Anaconda**—Council ordered paving of Main st., estimated cost \$43,000; address city clerk.

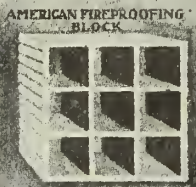
**Mont., Great Falls**—Hearing May 25, on the improving of 6th, 7th, 8th and 9th sts. with either asphaltic concrete, standard bitulithic, gravel bitulithic or creosoted wood blocks; W. H. Harrison, city clerk.

**S. D., Sioux Falls**—Hearing May 18, on grading streets in various parts of the city; Walter C. Leyse, city auditor; hearing June 8 on curbing on Prairie av., etc.

**S. D., Yankton**—Hearing June 1, on sidewalk on various streets; John W. Summers, city auditor.



# AMERICAN Brick & Tile Co.

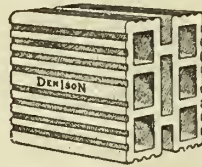


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BLOCK

MASON CITY  
IOWA  
AMERICAN  
DRAIN TILE



Manufacturers of Common and Hollow Brick, Hollow Building Blocks, Fireproofing and Partition Tile, Vitrified Drain Tile from 4 to 24 inches. WE ALSO MANUFACTURE THE INFINITEX SILO BLOCK



## DENISON

### LOAD-BEARING TILE

Licensed under the WILSON SYSTEM Bearing Wall Construction. U. S. and Foreign Patents pending and allowed.

### THE STRONGEST TILE IN THE WORLD

Guaranteed crushing strength, 600 pounds to the square inch.

Superior for stucco exteriors or bonds perfectly with brick.

Non-continuous mortar joints.

Vertical webs directly over each other.

Saving in cost erected of 25% over brick construction.

### MASON CITY BRICK & TILE CO.

MASON CITY, IOWA

Makers of All Kinds of Fireproofing, Silo Tile, Elevator Tile and Drain Tile.

## Tile and Marble

For Floors, Walls, Ceilings, Etc.  
Slate Blackboards, Steps, Platforms, Marble Interior Finish,

ESTIMATES

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**TWIN CITY TILE & MARBLE CO.**  
312-14 7<sup>TH</sup> ST. S. MINNEAPOLIS, MINN.

POROUS HOLLOW TILE

## FIREPROOFING

HOLLOW TILE PLOCKS FOR RESIDENCES

**NORTHWESTERN FIREPROOFING CO.** 107 Kasota Bldg  
MINNEAPOLIS

## A. C. OCHS BRICK & TILE CO. BRICK

Manufacturers of the  
CELEBRATED

SAND MOLD VENEER AND HOLLOW BRICK A SPECIALTY

Works: {Springfield, Minn. General Office: {Springfield, Minn.  
{Heron Lake, Minn.

## BRICK

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ALL ORDERS Filled Promptly **Sioux City Brick & Tile Works**

## The Flint Brick Company

Manufacturers of

### Paving Brick and Blocks

Sidewalk, Building, Sewer and Black Face Brick.  
DES MOINES, IOWA



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**BRIOSCHI-MINUTI COMPANY**  
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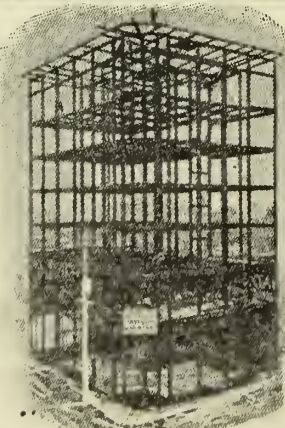
## Chaska Brick & Tile Co.

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### CHASKA BRICK SOLID AND HOLLOW

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616 Ryan Bldg., St. Paul, Minn.



## Structural Steel

of every description, for all purposes. Structural Shapes and Reinforcing Rods kept in stock.

ESTIMATES GLADLY  
FURNISHED

### Clinton Bridge Works

CLINTON - IOWA

## HEBRON BRICK

Fire and Fancy Pressed

MANUFACTURED BY

**HEBRON FIRE & PRESSED BRICK CO.** HEBRON,  
NO. DAK.



**Wis., Dodgeville**—Council has ordered 1615 feet of new walks; J. P. Lewis, city clerk.

**Wis., Marinette**—Council has ordered paving of Carney av. with concrete and Chestnut st. with macadam; address city clerk.

**Wis., Oshkosh**—Hearing May 18, on the improvement of 6th st., 9th st., Waugoo st., Ogden av., and E. Oak st.; R. A. Hollister, chairman board public works.

**Wis., Racine**—Council will pave 4 blocks on Main st. with brick; address city clerk.

**Wis., Two Rivers**—W. O. Bahr of Manitowoc was the low bidder on a \$35,000 paving contract here, paving to be of concrete, macadam, etc., but not brick.

**Mont., Lewistown**—Council has under consideration special improvement district to be created on Janeaux st. from 6th av. to Dawes st., for paving; bridge to be built over Spring Creek at 2d av. and creek straightened at this point; estimated cost of straightening creek, \$9,000; of bridge, \$2,000.

**Neb., Havelock**—Plans and specifications received for retaining wall at 11th and P sts.; address city clerk.

#### BIDS WANTED.

**Iowa, Marshalltown**—J. J. Wilson, city clerk, authorized to call for bids for grading N. 3d av., also in Buford's addition; about 46,000 square yards of earth to move.

**Iowa, Muscatine**—Board of supervisors will purchase modern road machinery soon; H. C. Shoemaker, county auditor.

**Iowa, Seymour**—Bids received by J. W. Lowry, city clerk, until May 25, for cement sidewalks and street crossings on streets and alleys.

**Man., Winnipeg**—Bids received by W. Gorham, secretary-treasurer, Bird's Hill, p. o., Man., until 6 p. m., May 22, for reinforced concrete culverts in the rural municipality of St. Paul.

**Minn., Avon**—Bids received by N. J. Terhaar, village recorder, until May 18, for 300 feet of 6-foot cement sidewalk.

**Minn., Bemidji**—Bids received by J. L. George, auditor, Beltrami county, until 2 p. m., May 26, for clearing, grading, grubbing, ditching, turnpiking and installing culverts on town, county and state roads; check 5 per cent.

**Minn., Benson**—Bids received by D. P. Carney, auditor, Swift county, until 1 p. m., May 22, for road work and concrete culverts; cash or certified check 5 per cent.

**Minn., Breckenridge**—Bids received by P. E. Truax, county auditor, until 10 a. m., May 19, for grading 3 miles of road on state road No. 3, west of village of Foxhome; check 10 per cent.

**Minn., Carlton**—John Bergman wants bids for 10 miles of state road work.

**Minn., Center City**—Bids received by architects, F. L. Stromgren, county auditor, until 11 a. m., May 16, for county road job No. 1, 13,082 feet clearing, grubbing, grading and turnpiking, concrete and corrugated metal culverts; also, job No. 2, 33,893 feet, same as above; check 5 per cent.

**Minn., Detroit**—Bids received by E. J. Bestick, city clerk, until 8 p. m., June 1, for 200 feet cement walks and 150 feet cement crosswalk.

**Minn., Fairmont**—Bids received by H. C. Nolte, auditor, Martin county, until 1 p. m., May 22, for 2 miles of state road No. 4, 1 mile on No. 7, 1 mile on No. 9, and 1 mile on No. 5; check 5 per cent.

**Minn., Little Falls**—Bids received by B. Y. McNairy, auditor, Morrison county, until 2 p. m., May 28, for claying, ditching and grading on state road No. 3, jobs 7, 8 and 9; check 10 per cent.

**Minn., Litchfield**—Bids received by A. O. Palmquist, auditor, Meeker county, until 2 p. m., May 23, for various jobs of county road work, amounting in all to about \$7,000.

**Minn., Marshall**—Bids received by Ernest S. Shepard, auditor, Lyon county, until 2 p. m., June 2, on the job of road constructing on state road No. 54, requiring grading, gravel surfacing, 82 concrete culverts, 500 lineal feet 12-inch corrugated iron culverts, railing, the total length being 23 1-4 miles, and the total cost estimated at \$51,668; check 10 per cent; officially advertised in this issue of the Improvement Bulletin.

**Minn., Marshall**—Bids received by H. E. Persons, city recorder, until 7:30 p. m., May 25, for cement gutters on Main st.

**Minn., Minneapolis**—Bids received by Al. P. Erickson, auditor, Hennepin county, until 11 a. m., May 25, for grading and macadamizing 23,295 feet of road No. 29, 19,500 feet road No. 3 and preparing and concreting part of road No. 41, in Minnetonka township; certified check 5 per cent.

**Minn., Montevideo**—Bids received by A. M. Parks, city clerk, until 8 p. m., May 18, for cement sidewalks during the season.

**Minn., Pine City**—Bids received by W. H. Hamlin, county auditor, until 1 p. m., May 25, for clearing, grubbing, grading,

turnpiking and ditching, amounting to an estimated cost of \$4,974; check for 5 per cent.

**Minn., Renville**—Bids received by H. G. Thorson, town clerk, until June 13, for clearing, breaking and grading roads.

**Minn., Rochester**—City clerk instructed to advertise for bids for paving with creosoted blocks and asphaltic concrete on various streets, to be opened May 25; according to the estimate of the city engineer, there will be 16,756 square yards paving on E. 5th st., estimated cost of which will be \$42,000; on Dubuque st. 15,096 square yards costing \$23,849.98; on W. 5th st. 10,846 square yards costing \$22,095.75; and on Cascade road 1,493 square yards costing \$4,002.15; making a total estimated cost of paving of \$91,947.88.

**Minn., Roseau**—Bids received by S. G. Bertilrud, auditor, Roseau county, until 3 p. m., May 27, for county road job No. 1, a total of 21,532 lineal feet requiring 1,752 acres clearing, 17.37 acres grubbing, 1,449.3 cubic yards grading, 20,233 lineal feet of turnpiking, 249.5 cubic yards side ditching, at a total estimated cost of \$1,999; also at same time for county job No. 4, being 3,400 feet, requiring 3.49 acres clearing, 3.49 acres grubbing, 3,400 feet of turnpiking, and one concrete culvert, at a total estimated cost of \$277; check in each case 5 per cent.

**Minn., Slayton**—Bids received by W. A. Seeman, county auditor, until 1 p. m., May 20, for a large amount of state road work, including clearing, grubbing, grading, turnpiking, concrete filling, concreting, concrete and sectional culverts, one 23-foot span concrete floor bridge; check 5 per cent.

**Minn., South St. Paul**—Bids received by J. R. Stevenson, city recorder until 8 p. m., May 18, for such cement block crossings and gutters as council may order before Oct. 1; check \$100.

**Minn., St. Cloud**—Bids received by Nicholas Thomey, county auditor, until 2 p. m., May 29, for county road job No. 4, a total of 33,383 lineal feet grading, turnpiking and ditching, estimated at \$1,921; check 5 per cent; also at 3 p. m., May 27, for county road job No. 3, 41,200 lineal feet, clearing, grubbing, grading, turnpiking and ditching, estimated to cost \$4,433; check 5 per cent.

**Minn., St. Paul**—Bids received by Leonard C. Seamer, clerk board public works, until 2 p. m., May 21, grading alley in Lyman Dayton's addition; also, at same time, for grading and curbing on Como av.; check 10 per cent.

**Minn., St. Paul**—Bids received by Leonard C. Seamer, clerk board public works, until 2 p. m., May 20, for curbing streets in St. Anthony park; check 10 per cent.

**Minn., St. Paul**—Bids received by L. G. Hoffman, secretary, board of park commissioners, until 2 p. m., May 18, for improving Cherokee Heights boul.; also at same time, for grading Mounds boulevard; also, at same time, for grading upper roadway on Johnson parkway; checks 10 per cent.

**Minn., Two Harbors**—Bids received by John P. Paulson, auditor, Lake county, until 10 a. m., June 2, for clearing and grubbing about 6 miles of highway; also, at same time, for grading, etc., on state road No. 1, about 37,562 feet; also, at same time, for clearing, grubbing and grading about 1 1/2 miles of highway; check in each case for 5 per cent.

**Minn., Walker**—Bids received by Roy Devore, town clerk, Inguadons township, until 10 a. m., May 30, for road work; check \$10.

**Mont., Billings**—Bids received by F. E. Williams, clerk of the board of county commissioners, until 2 p. m., May 23, for grading, clearing, grubbing and placing, 3 sectional concrete culverts, the culverts to be furnished by the county; check 5 per cent.

**Mont., Billings**—Bids will soon be called for on 10 carloads of cement to be used on 55 blocks of sidewalks, to be delivered as needed; address city clerk.

**Mont., Fort Benton**—Bids received by John F. Murphy, city clerk, until 8 p. m., June 1, for approximately 21,780 square yards of water bound bituminous macadam, and 10,000 cubic yards earth work, 8,340 lineal feet curb and 23,000 square feet walks, 3,525 square feet cross walks; check 10 per cent.

**Mont., Lewistown**—Bids received by H. L. Pitton, city clerk, until 8 p. m., May 18, for excavating, cutting, filling and grading to sub-grade, where necessary, preparatory to paving, and the paving, with vitrified brick, asphaltic concrete, bitulithic, creosoted wood blocks, gravel, bitulithic or some other equally hard and durable substance of 6th av.; also at same time for excavating, cutting, filling and grading, to sub-grade, where necessary, preparatory to paving; the constructing of concrete curbs; and the paving, with vitrified brick, asphaltic concrete, bitulithic, creosoted wood blocks, gravel bitulithic or some other equally hard and durable substance; check for 10 per cent.

**N. D., Bowbells**—Bids received by John Romine, and Burke county, until 2 p. m., May 26, for grades; certified check \$100.

**N. D., Glenburn**—Bids received by Peter Carlson, auditor, Renville county, until 2 p. m., June 2, for various jobs of grading; check 5 per cent.



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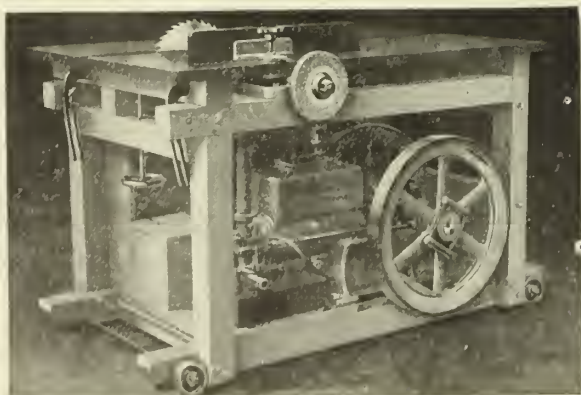
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**N. D., New Salem**—Bids received by Frank J. V. Kiebert, auditor Oliver county, until 5 p. m., May 23, for a quantity of road machinery; officially advertised in this issue of the Improvement Bulletin.

**N. D., Sentinel Butte**—Bids received by G. Nichols, village clerk, until 8 p. m., May 19, for 4,500 square feet cement walks.

**Sask., Regina**—Bids received by city commissioners until June 1, for 113,000 square yards pavement; F. McArthur, city engineer.

**S. D., Rapid City**—Bids received by J. H. Mathias, city auditor, until 6 p. m., May 25, for certain sidewalks.

**S. D., Rapid City**—Bids received by J. H. Mathias, city auditor, until 6 p. m., May 25, for sidewalk work in various parts of the city.

**Wis., Grand Rapids**—Bids will be advertised for on paving with brick from First National Bank to market square; address board public works.

**Wis., Neenah**—Bids received by H. S. Zemlock, secretary board of public works, until 1:30 p. m., June 10, for the improvement of Doty av. and Brien st. according to detailed specifications in the office of the city clerk.

#### CONTRACTS AWARDED.

**Iowa, Carroll**—Contract to A. B. McCurdy, Dedham, for grading 4 miles of road at \$7,197.

**Iowa, Fort Dodge**—Contract to Bryant Asphalt Paving Co., Waterloo, for asphaltic concrete at \$1.59 per square yard; other bidders were Johnson Construction Co., Chicago, Ill., at \$1.65; Capital City Construction Co., Springfield, Ill., \$1.59; Jas. Horrabin Co., Des Moines, Iowa, \$1.68; Ford Paving Co., Cedar Rapids, Iowa, \$1.65.

**Iowa, Ft. Dodge**—Contract with J. W. Feaherty & Son, city, for cement curb on athletic field at 19.9, and Jensen Construction Co., city, for sidewalk at 9c.

**Iowa, Marion**—Contract to J. B. Ford for 75,000 feet cement walks at \$9,150.

**Iowa, Sioux City**—Contract to R. E. Detz, 326 Iowa building, for grading section 3, Sioux City and Sloan roads; E. E. Hosmer, auditor, Woodbury county.

**Man., Winnipeg**—Contract to Watrous Engine Works Co., Ltd., city, for a steam or gasoline roller at \$2,900.

**Minn., Cloquet**—Contract to Ed. Johnson of Superior for cement walks and cross-walks at 9c per square foot for walks and 15c for cross-walks.

**Minn., Detroit**—Contract with Len Meyer, Frazee, for grading state road at \$320; also, with Delta Daggett, city, for grading state roads, at \$1,262.

**Minn., Grand Rapids**—Contract with Louis Leimer, Cloquet, for the road from Deer River to the Mississippi, 7 miles, at \$13,145; with the Northern Construction Co. for the road work between Deer River and the Koochiching county line, about 38 miles, at \$49,110; with Pogue Bros. of Warba, for the road from Rice river to the Beltrami county line, at \$21,816.

**Minn., Hallock**—Contract with Gottfried Erickson of Warren for grading the state road north of this city; a steel bridge will also be put in.

**Minn., Hibbing**—Contract with J. McCarthy Co. for one mile of the Connors road at \$3,465; with John McHale for 5 miles of the township line Hughes-Newton road at \$9,985.

**Minn., International Falls**—Contract with the M. & M. Tractor Co., Minneapolis, for a 25 h. p. gas tractor for road work.

**Minn., Ivanhoe**—Contract with Russell Grader Mfg. Co., Minneapolis, scrapers, 4 No. 1 drag with runners at \$21.60; 6 No. 2 wheel scrapers with double bit at \$241.92; 4 No. 4 lever road drags, 8 feet wide, weight 288 pounds, at \$57; 14 No. 2, rigid drags, 8 feet wide, weight 325 pounds, \$160, all f. o. b. cars Ivanhoe; demonstration on May 13 and 14, on road graders by Russell Grader Mfg. Co., Minneapolis, J. D. Adams & Co., Indianapolis, Ind. and the Gallion Iron Works Co., Gallion, Ohio.

**Minn., Kennedy**—Contract to Axel Sponberg of Hallock for village sidewalks.

**Minn., Long Prairie**—Contract with Russell Grader Co., Minneapolis, for a 2-horse grader, etc.; E. M. Berg, county auditor; also to S. H. Adams, Swanville, for two jobs county road work.

**Minn., Sherburne**—Contract with C. H. Oltman, Welcome, Minn., for 4½ miles grading.

**Minn., Smithville**—Contract with the Butler-Coons Co., Hibbing, for concrete paving for the streets and alley of the Model city for the Minnesota Steel Co.

**Minn., South St. Paul**—Contract to Thornton Bros., St. Paul, for grading, etc., on 8th av. at \$2,687.

**Mont., Lewistown**—Contract with J. C. Maguire for street work, 79c per cubic yard for excavation, 60c per square yard for removal of cross walks, \$2.59 per square yards for standard bitulithic pavement.

**Minn., Two Harbors**—Contract with Fred Hagberg for

grubbing and grading the Drummond road, 6 miles at a cost of approximately \$6,800.

**Minn., Wadena**—Contract with the Great Northern Bridge Co. for construction of about 5½ miles of road in the towns of Leaf River and Rockwood at cost, plus 10 per cent.

**Minn., Worthington**—Contract to Chas. B. Andrews, Rushmore, Minn., for county road job No. 3, at \$5,600; Joe Sampson, Sioux Falls, S. D., bid \$6,500; D. E. Davison, road engineer, city.

**Mont., Hamilton**—Contract with Lord Construction Co. for city's concrete work.

**Mont., Ryegate**—Contract with Poucher & Copp for building road from Franklin to Barber.

**Neb., Lincoln**—Contract for repaving in district No. 48 to Burke-Cochrane Construction Co., city, at \$2,742; the bid of Abel & Roberts, city, was \$2,780; in paving district No. 181, the contract went to Abel & Roberts at \$19,821; the competing bids by the Burke-Cochrane Construction Co. was \$19,980. In paving district No. 266 the contract went to the Burke-Cochrane Construction Co., at \$7,088, the competing bid by Abel & Roberts being \$7,164; in paving district 277 the bid of the Burke Cochrane Construction Co. was \$2.30 for brick, \$1.68 for asphaltic concrete, 54c for concrete, curb and 89c for combined curb and gutter; the bid of Abel & Roberts was \$2.30 for brick, \$1.69.9 for asphaltic concrete, 55c for concrete curb and 90c for combined and gutter. Theo Berg, city clerk.

**N. D., Bismarck**—Contract to Victor S. Mercer, Sterling, for grading roads to Kidder county line at \$588, the price being from 15 to 21.75 cents per yard.

**N. D., Washburn**—Contract to the Austin-Western Road Machinery Co., Minneapolis, for five or more road plows at \$14.10. Other bidders were as follows: Sears Roebuck & Co., Chicago, \$10.20; C. W. McGray, Underwood, N. D., \$15.75; J. D. Adams & Co., \$19.08; Road Machinery Co., Kansas City, Mo., \$17.95; Northfield Iron Co., Northfield, Minn., \$14.75; Wilton Mercantile Co., Wilton, N. D., \$15.85; North Dakota Metal Culvert Co., Fargo, N. D., \$18.50; Chamberlain Road Machinery Co., Minneapolis, \$14.75; Russell Grader Manufacturing Co., Minneapolis, \$15.27. Contract for twenty or more Fresno scrapers went to the North Dakota Metal Culvert Co. for thirty-five scrapers, at \$15.10. Other bidders were as follows: Sears Roebuck & Co., Chicago, \$17.65; C. W. McGray, Underwood, N. D., \$16.45; J. D. Adams & Co., Indianapolis, Ind., \$15.39; Road Machinery Co., Kansas City, Mo., \$15.75; Northfield Iron Co., Northfield, Minn., \$23.35; Wilton Mercantile Co., Wilton, N. D., \$19.25; Austin-Western Road Machinery Co., Minneapolis, \$19.61; Chamberlain Road Machinery Co., Minneapolis, f. o. b. Minneapolis, \$14.00; Russell Grader Manufacturing Co., Minneapolis, \$17.01.

**S. D., Sioux Falls**—Contract let to C. H. Atkinson Paving Co. for 10 blocks of paving with Trinidad asphalt at \$1.73 per yard; also the curb contract; the gutter contract went to the Stover Construction Co.

**S. D., Sioux Falls**—Contract to Ford Paving Co., Cedar Rapids, Iowa, for paving on Phillips av. with creosote blocks, at \$2.53 per square yard; contract for curb let to J. A. Ford, at 39.5 per lineal foot.

**S. D., Sioux Falls**—Contract with Fanebust Bros. for paving S. Phillips av. for 5 blocks with tarvia at \$1.19 per square yard; W. H. Lyon guarantees pavement for 7 years, to keep it in repair for that time, and to replace it with another pavement at the end of 7 years if the tarvia should prove a failure. Contract has also been made with the C. H. Atkinson Co. of Watertown for paving Duluth av., for five blocks, with asphaltic concrete at \$1.19 per square yard, a total of \$1,315.

**Wis., Janesville**—Contract awarded for asphalt macadam on St. Lawrence av., and water bound macadam on Court st., Garfield av., and other streets to Gund Graham Co., Freeport, Ill., at \$9,951.

**Wis., Superior**—Contract with Magnus Peterson for paving on North 14th st. at \$2,009 for rock concrete and \$1,926 for gravel.

## RAILROADS

*Notes arranged alphabetically by States.*

*Items marked with asterisks not in Daily Sheets.*

**Mich., Stambaugh**—Milwaukee road will begin freight house soon.

**Wis., Green Bay**—Leyder, Orstseifen Co., Chicago, general contractors, will start construction of N. W. freight station here at once; cost \$50,000; brick, 2-story, rolling doors, fire-proof, fireprotection pipes.

**Wis., Iron River**—Milwaukee road is building \$15,000 station.



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**Wis., Jefferson**—Plans for new N. W. Station received, 89x22, brick platform, brick wall, Lynn Smith, secretary, promoters.

**Wis., Sturgeon Bay**—Fabry Construction Co., Green Bay, started work on station for K. G. B. & W. road; 40x60, 3-story, brick, concrete foundation, terrazzo floors and marble trim; B. T. Benton, architect.

#### BIDS WANTED.

**Wis., Sturgeon Bay**—Bids are being taken on the Dorr County Peninsula R. R. by Frederick G. L. Hunt, directing engineer, 1938 Hayes st., Minneapolis, Minn., 260,000 yards grading, 11,000 solid rock, construction to include everything, fences, bridges, docks, wharves, telephone line, etc.; work to be started June 15.

#### CONTRACTS AWARDED.

**Mich., Iron Mountain**—Contract awarded to J. E. Utke, Marinette, Wis., for \$10,000 station, St. Paul road here, heating and plumbing to John Obermeyer, Iron Mountain, steam heat, electric light, 80 feet long.

**Wis., Belgium**—Contract awarded to Peter Franklin, Green Bay, for new station here.

## SEWERS

*Notes arranged alphabetically by States.*

*Items marked with asterisks not in Daily Sheets.*

**Iowa, Des Moines**—Hearing May 27 on a 24-inch sewer in E. 30th st., Horace Susong, city clerk.

**Iowa, Mason City**—Frederick E. Bass, consulting engineer, recommends 30-inch pipe for main sewer below point where Willow Creek sewer is intercepted.

**Iowa, Waterloo**—Hearing May 25, on a sewer of 10-inch standard vitrified sewer pipe on Kenilworth road; R. L. De-Gon, city clerk.

**Minn., Aitkin**—Council has ordered sewer on Willard st., 8-inch vitrified pipe, completed by June 27; H. C. Beecher, village clerk.

**Minn., Revere**—Sewers are said to have been determined upon by the city authorities; address the village clerk.

**Minn., Sleepy Eye**—Burns & McDonnell, engineers, Kansas City, have contract for sanitary engineering on proposed sewer system, \$800 for complete plans, specifications, surveys and estimates, and \$200 per month for supervision, not to exceed \$800; H. C. Peterson, village recorder.

**Mont., Libby**—Hearing May 19 on creation of special improvement district No. 10; J. W. Barrett, city clerk.

**Neb., Fremont**—Commissioner Wright recommends installation of 6,800 feet sewers at a cost of \$10,000.

**Neb., Stanton**—An engineer from the Lytle Construction Co., Sioux City, was in Stanton recently doing preliminary work toward perfecting plans for proposed sewer system; address city clerk.

**S. D., Watertown**—All bids rejected for lateral sewers in district to be paved; address city clerk.

**Wash., Anacortes**—City council ordered sewers on 4th and 5th sts.; address city council.

**Wash., Elma**—City council reported to have passed resolutions for city engineer to prepare plans for \$15,000 trunk sewer; address city clerk.

**Wash., Garfield**—City council reported to have passed resolutions for 45,000 feet of sewer and plans now being completed by city engineer.

**Wash., Palouse**—J. M. McGaw, engineer, Garfield, authorized to prepare plans for 8,700 feet of sewers; address city clerk.

#### BIDS WANTED.

**Iowa, Mason City**—Bids received by J. H. McEwen, city clerk, until 10 a. m. May 18, for lateral sewers as follows: No. 1, 8-inch, 1,700 feet; No. 2 8-inch 150 feet; No. 3, 8-inch, 570 feet; No. 4, 8-inch, 559 feet; checks in each case from \$100 to \$250.

**Minn., Austin**—Bids received by city clerk until 8 p. m., May 22, for 4,074 feet 8-inch, 766 feet 12-inch, 1,785 feet 15-inch and 672 lineal feet 18-inch sanitary sewer; check, 5 per cent; Oscar F. Weissgerber, city engineer.

**Minn., Detroit**—Bids received by E. J. Bestwick, city clerk, until 8 p. m., June 1, for 250 feet sewer and 350 feet water main; check 10 per cent.

**\*Minn., Faribault**—Bids received by state board of control, Capitol building, St. Paul, Minn., until 2 p. m., June 1, for state purification plant for state school for feeble-minded. Check for 5 per cent. Officially advertised in this issue of the Improvement Bulletin.

**Minn., Lakefield**—Bids received by R. J. Hill, village clerk, until 8 p. m., June 9, for sanitary and purification plant, 8, 10, 12 and 15-inch sewer pipe; check 15 per cent; officially advertised in this issue of the Improvement Bulletin.

**Minn., Mahanomen**—Bids received by Geo. O. Lee, village recorder, until 8 p. m., May 25, for sewer system.

**Minn., St. Paul**—Bids received by Leonard C. Seamer, clerk board public works, until 2 p. m., May 20, for the Griffith-Terry sewer system, (so-called); also, at same time, for the Ocean st. sewer system, district No. 1; check in each case for 10 per cent.

**Minn., St. Paul**—Bids received by Leonard C. Seamer, clerk board public works, until 2 p. m., May 21, for sewer on Curtice st.; also, for a sewer on Fulton st.; also, for a sewer on Winona st.; also, for a sewer on Front st.; also, for a sewer on Fauquier st.; also for a sewer in Reaney st.; check in each case for 10 per cent.

**\*Minn., Zumbro Falls**—Bids received till May 21, on sewers; 585 feet 10-inch; 1,455 feet 8-inch; 5 manholes; W. C. Fraser, engineer, St. Paul.

**Mont., Billings**—Bids received by the city clerk, until June 2, for one of the largest sewer districts ever approved by the council; cost being about \$17,000.

**Mont., Fort Benton**—Bids received by John F. Murphy, city clerk, until 8 p. m., June 1, for a sanitary and storm sewer and drainage system consisting of approximately 1,350 lineal feet of 6-inch vitrified sewer pipe; 1,820 lineal feet 8-inch; 8,541 lineal feet of 10-inch; 450 lineal feet of 12-inch; 1,615 lineal feet of 18-inch; 402 8x6 single Ys; 363 10x6 single Ys; 20 12x6 single Ys; 20 18x6 single Ys; 55 intakes; 11 catch basins; 50 man holes; 7 automatic flush tanks; 75 lineal feet 18-inch castiron pipe, 20,000 cubic yards of earth excavation. Check 10 per cent.

**Mont., Great Falls**—Bids received by W. H. Harrison, city clerk, until 8 p. m., May 18, for a 9-inch sanitary sewer in 1st alley S.; also at same time, for a 9-inch sanitary sewer in 2d alley N.; also, at same time, for a 9-inch sanitary sewer in 1st alley N.; check in each case for 10 per cent.

**Mont., Valier**—Bids received by H. D. Harrison, city clerk, until about June 1, for a sewer system, including about 5,000 feet 12 and 10,000 feet 8-inch sewers with septic tank; cost about \$20,000; engineer, C. H. Green, Spokane.

**Ont., Fort William**—Bids are wanted until May 20, for sewers; A. McNaughton, city clerk.

**S. D., Armour**—Bids received by J. O. Perkinson, city auditor, until 8 p. m., June 3, for a sewer system; officially advertised in this issue of the Improvement Bulletin.

**S. D., Britton**—Bids received by Geo. G. Baker, city auditor, until 8 p. m., June 18, for a complete sewer system, including sewage treatment plant; check 5 per cent.

**\*S. D., Mitchell**—Bids received by N. H. Jensen, city auditor, until 8 p. m., June 1, for lateral sewers, etc. Officially described in advertisement in proposal columns of Improvement Bulletin this week. Check for 5 per cent.

**Wis., Oshkosh**—Bids received by R. A. Hollister, chairman, board public works, until 2 p. m., May 21, for sewers in 8 streets and avenues.

**Wis., Waukesha**—Bids received by Wm. Powrie, chairman, board public works, until 2 p. m., May 29, for a concrete sewer through the water works property; check \$100.

#### CONTRACTS AWARDED.

**Iowa, Sheffield**—Contract with Arthur A. Dobson & Co., Lincoln, Neb., for sewer and water works at \$9,325; disposal plant to M. Tschirgi & Sons, Cedar Rapids, at \$2,063.

**Iowa, Sumner**—Contract for the sewage disposal plant has been let to Blackhawk Construction Co., Waterloo, Iowa; M. Tschirgi, engineer, Cedar Rapids, Iowa.

**S. D., Sioux Falls**—Contract with Stover Construction Co. for three blocks lateral sewers, catch basins, inlets and connections, at \$2,340.

## BRIDGES

*Notes arranged alphabetically by States.*

**Iowa, Toledo**—Resolved to construct a pony truss bridge in Perry township, steel and concrete, 16-foot roadway, 40-foot span, a culvert between section 19 and 20, Oneida township, reinforced concrete, 22-foot roadway, 6-foot span, 2 culverts in Carlton township, 6-foot span each, 22-foot roadway; hearing May 19; Posten county auditor.

**Minn., Duluth**—Duluth & Iron Range Railroad Co. will build a foot bridge over its tracks near 11th av.

**Minn., Grand Rapids**—A bridge will be built over G. N. tracks about half way between Blackberry and Warba.

**\*Minn., Hallock**—A steel bridge will be built on state road north of here at site of old lumber bridge.

**Minn., Long Prairie**—A. H. Hendrickson, Sauk Center, received contract for building bridge here.

**Minn., Mountain Iron**—Council voted to build a concrete bridge over creek in western part of the village.

**Wis., Fond du Lac**—All bids rejected without being opened



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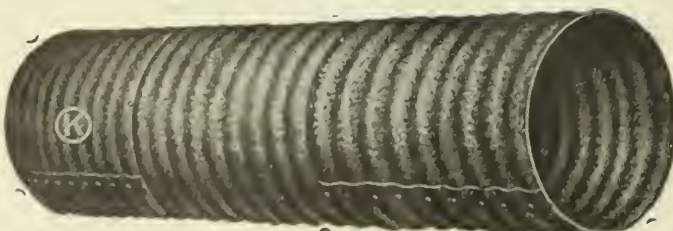
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for reinforced concrete bridge because there is to be a change in plans. Will be readvertised on new plans soon; A. S. S. Witherson, clerk.

**Wis., Ladysmith**—County board petitioned for a bridge across the Chippewa between town of Murray and Hubbard; one across the Flambeau north of Troy; J. C. Stubbs, Wayerhauser, chairman.

#### BIDS WANTED.

**Iowa, Le Mars**—Bids received by Geo. M. Smith, county auditor, 2 p. m., May 20, for construction of concrete culverts as follows: 45 concrete culverts in different parts of county, county will furnish reinforcing steel and cement at railroad station nearest work, contractor will have to haul same to culvert site; check for 5 per cent; bids are also asked for construction of culverts on a percentage of the pay roll and cost of concrete, materials not furnished by county; county will not furnish any material for forms.

**\*Iowa, Orange City**—Bids received 2 p. m., May 20, by county auditor for construction of 47 concrete culverts; check for 5 per cent.

**Minn., Bemidji**—Bids received 10 a. m., May 19, for construction of three culverts and two culverts.

**Minn., Glencoe**—Bids received by F. D. Stocking, county auditor, 1:30 p. m., May 29, for building bridge 828, 90-foot pin connected truss span, 18-foot roadway, concrete floor and abutments; plans by state highway commission.

**Minn., Little Falls**—Bids received by M. J. Viechorek, county commissioner, 2 p. m., June 1, for construction of concrete culvert on section 35, township 129, range 30, Pike Creek on Long Prairie road; plans on file at office of county auditor.

**\*Minn., Herman**—Lyle Corrugated Culvert Co. received contract for culverts at \$404.80.

**\*Minn., Marshall**—Bids received by E. S. Shepard, county auditor, 2 p. m., June 2, for road work that will include 82 concrete culverts, 6 reinforced concrete culverts, 500 lineal feet 12-inch corrugated culverts; check for 10 per cent.

**Minn., St. Cloud**—Bids received 2 p. m., June 1, for building state bridge No. 1088 on state road No. 4, in town of St. Cloud, superstructure 12-foot, 18-foot roadway, concrete floor on I-beam foundations; plans by state highway commission; Nicholas Thomey, county auditor; check for 5 per cent.

**Minn., St. Cloud**—Bids received by Geo. G. Magnuson, city clerk, for painting St. Germain st., bridge and 10th st. bridge May 26; check for \$25.

**Minn., St. James**—Bids received by J. C. Jensen, county auditor, for building state bridge No. 1256 on state road No. 3. Plans by state highway commission; check for 5 per cent.

**Minn., St. Paul**—Bids received by L. G. Hoffman, secretary, board of park commissioners, for refooring and painting bridges at Phalen Park; 2 p. m., May 18; check for 20 per cent.

**Mont., Billings**—Bids received by C. H. Newman, chairman, 11 a. m., May 28, for steel and concrete bridges over Five Mile creek, 7 miles north of here; Hogan slough, 4 miles southwest of here; big ditch 7 miles west of here; Twelve-Mile creek, 14 miles northeast of here, B. L. & I. canal, 13 miles northeast; Twelve Mile creek, 14 miles northeast; Creeked creek, 19 miles northeast; B. L. & I. canal, 19 miles northeast; Alkali creek, 2½ miles northeast; Coulee 5 miles southwest of Waco; check for 5 per cent.

**N. D., Ellendale**—Bids received by C. C. Misfeeldt, county auditor, 2 p. m., June 2, for repairing and refinishing the grading of the west approach to bridge over James river in section line between section 13 and 24-120-60.

**\*Wis., Oconto**—Bids received 3 p. m., May 19 in town hall, in town of How, for construction of solid concrete reinforced bridge over south branch of Oconto river; Gustave Otto, Robt. Pethke and F. Peterman, supervisors; bids received in town hall, town of Spruce, 2 p. m., June 1, for building concrete reinforced bridge across Kelly brook; Jos. Kadlec and J. A. McLain, supervisors.

**Wis., Washburn**—Bids received at office of T. F. Mackmiller in the town of Iron River, 2 p. m., May 26, for construction of concrete abutments, etc., on site of Mackmiller bridge over Iron river, section 7-47-8; check for \$100; Nels M. Oscar, county clerk.

#### CONTRACTS AWARDED.

**Iowa, Harlan**—Lana Construction Co. received contract to build three permanent bridges in county.

**Minn., Alexandria**—T. Sullivan of Eden Valley received contract for building bridge in town of Belle River.

**\*Minn., Brainerd**—Contract for three bridges let to Hewitt Bridge & Steel Co.

**Minn., Duluth**—Contract let to W. H. Kilton, to construct a bridge over Keene's Creek at \$3,200.

**Minn., Duluth**—Contract for reinforced concrete bridge across Pike river let to Illinois Steel Bridge Co., to W. H.

Kiltin, West Duluth, for bridge across Keene Creek at \$3,200.

**\*Mont., Cut Bank**—A contract will probably be let at June session of county board for bridge over Cut Bank; cost \$10,000; Martin Jacobsen and S. L. Potter, interested.

**Mont., Glasgow**—Contract for bridge over Beaver Creek awarded to Illinois Steel Bridge Co. at \$3,998.

**Mont., Glasgow**—Illinois Steel Bridge Co. received contract for concrete bridge at \$850.

**Mont., Lewistown**—D. J. Burke has been awarded contract by Milwaukee road for building of bridges on 60 miles of the Choteau extension.

**Neb., Wayne**—Standard Bridge Co., Omaha, received contract for building and repairing bridges in county for the year.

**S. D., Chamberlain**—Federal Bridge Co., Des Moines, received contract for building county bridges for the year.

**Wis., Barron**—A. H. White Co., received contract for concrete and steel bridge at \$1,200.

**Wis., Jefferson**—Contract for new bridge over Rock Creek let to Walter Blake of Appleton.

## ≡ DRAINAGE AND IRRIGATION ≡

*Notes arranged alphabetically by States.*

**Iowa, Council Bluffs**—Preliminary survey by D. Dean, engineer, accepted for proposed work on Seaton project, Harrison county, work to start as soon as bids can be got.

**Iowa, Ellsworth**—Engineers report on proposed district in petition of Chas. Blair, tile drain, is favorable, hearing May 25; A. J. Peterson, county auditor.

**Iowa, Rockwell City**—Engineers report on proposed district, 190, is favorable, hearing June 8, C. O. Dickson, auditor.

**Iowa, Sibley**—Proceedings dropped in matter of proposed district 19.

**Minn., Ada**—Final hearing judicial ditch 51, will be held here June 8, proposed ditch smaller than first planned.

**\*Minn., Baudette**—Petitions filed for five judicial ditches, 158 miles to drain 300,000 acres; Ernest Bourgeois, engineer, Bemidji, will survey; Middleton & Middleton, Baudette, attorneys; No. 22, 13 miles, average cost ditch and road \$1,350 a mile; No. 23, 40½ miles, \$1,326 a mile; 24, 29½ miles, \$1,387; 26, 16¼ miles, \$1,400; No. 27, 30 miles, \$1,500 a mile, including ridges and culverts; 28, 29 miles at \$1,460 a mile, including heavy bridge work.

**Minn., Belle Plaine**—Hearing 11 a. m., May 23, petition on county ditch 4, A. J. Mayer, auditor, Scott county.

**Minn., Fairmont**—Final hearing May 29 on judicial ditch 39, E. R. Flygare, clerk of court.

**Minn., Fairmont**—Judge Quinn has under advisement establishing judicial ditch 28; estimated cost \$72,000; also No. 38, estimated cost \$38,000.

**\*Minn., Marshall**—Hearing June 3, on judicial ditch 9.

**Minn., Windom**—First hearing June 1, judicial ditch 11; P. G. Neufeld, clerk of court.

**Neb., Falls City**—Court ordered incorporation of drainage district 4, 3,700 acres; land owners meet May 29 to choose supervisors.

**Neb., Superior**—Garden City Irrigation Power Co. has been given authority to do business as a public utility by the Kansas Utilities commission. This company promises to become one of the important irrigation projects of western Kansas. It is a subsidiary of the big shugar company operating in the Arkansas river valley. The power company is to buy the surplus electric current of the sugar company's plant and supply it to the farmers who want to irrigate their farms.

**Neb., Tekamah**—John Cameron, elected president drainage district. Wm. Ruhe, secretary, will get plans for ditching bottom lands at once.

#### BIDS WANTED.

**Iowa, Hampton**—\$170,000 is estimated cost of drainage district under consideration by Franklin and Hardin counties; large tiles will be used.

**Iowa, Nevada**—Bids received till 1:30 p. m., May 20, on district v-159, Story and Hamilton counties; C. A. Batman, auditor Story county.

**Minn., Ereckenridge**—Bids received until 10 a. m., May 19, for laying 8,600 feet of tile; plans with county auditor; P. E. Truax; check 10 per cent.

**Minn., Crookston**—Bids for doing work on county ditches 63 and 64, will be received until 10 a. m., May 25, H. J. Welte, county auditor.

**Minn., Ortonville**—Bids received by E. Scheibe, city clerk, until 8 p. m., May 25, for laying 750 feet, 8-inch drain tile, plans on file at city clerk's office.



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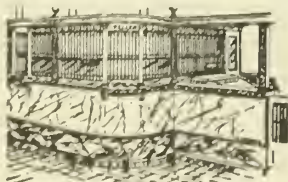
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## CONTRACTS AWARDED.

**Iowa, Jefferson**—Contract awarded for tile 5 to 32-inch to Churdan Cement Block & Tile Co., Churdan, Iowa, at \$15.-298.

**Minn., Crookston**—Coon Dredging Co. has contract for large amount of state ditch work near here, and has completed 1 mile.

**Iowa, Sac City**—Contract awarded to John Gibbs, for construction and to Cement Products Co., material, Sac City district No. 46; E. Z. Smith, engineer, reports favorably on district asked for by F. W. Kreft and others.

**S. D., Belle Fourche**—Government has confirmed award of contract to Owen Construction Co., Denver, for earth work North canal, Belle Fourche project.

## WATER WORKS

*Notes arranged alphabetically by States.*

**Iowa, Eddyville**—M. G. Hall, Centerville, Iowa, making preliminary plans for water works system at this place.

**Iowa, Estherville**—Council considering extending water mains 35 or 75 blocks.

**Iowa, Osage**—All petitions for water main extensions were granted.

**Iowa, Riceville**—It was voted to extend water mains.

**Minn., Buhl**—Bonds will be issued for \$125,000 for construction of a water works system; W. J. Doyle, major.

**Minn., Keewatin**—Council will buy two pumps \$1,000 each to drain out city well.

**Minn., Princeton**—John Hill, contractor, has started to rebuild water tank.

**Minn., Spooner**—Election May 19 to vote on issuing bonds for \$10,000 for construction of water works system; H. C. Hansen, clerk.

**Minn., Thief River Falls**—Fred Herrick, president of council appointed superintendent Peterson and mayor Backe, to get data and probable cost of a filtration plant.

**Mont., Billings**—Council offered Montana Water Co., \$315,000 for the local water system and gave them until May 19 to made a decision; if offer is not accepted, the water bond issue of \$575,000 will be readvertised for construction of a municipal water system.

**Mont., Cutbank**—Bonds for \$29,000 will be issued for construction of a water works system; John W. Coburn, clerk.

**Neb., Blue Spring**—Council considering extending water mains.

**Neb., Morrill**—This village will install a new water works system.

**N. D., Park River**—Plans are being made for considerable water main extensions by council.

**Wis., Appleton**—A stand pipe will be erected near the pumping station.

**Wis., Fond du Lac**—Water main extensions will be built.

**Wis., Rhinelander**—Petition for water main from C. & N. W. tracks to Pelican river was referred to the board of public works.

## BIDS WANTED.

**\*Minn., Alexandria**—Bids received by C. J. Sundblad, city clerk, until 7:30 p. m., June 1, for additions to the water works system. J. F. Druer, the Oscar Claussen Engineering Co., engineers, Commercial building, St. Paul, Minn. Check of \$1,600 for entire work. For further particulars see official advertisement in this issue of the Improvement Bulletin.

**Minn., Deer River**—Bids received by R. F. Beall, clerk, June 5, for construction of water main, 723 feet, material must be of best 6-inch cast iron pipe in 12-foot lengths, two hydrants, two shut-offs; 2 crosses, 2 tees, 2 plugs, with all connections and two frost jackets, also for water main No. 2, 1,036, 3 hydrants, 2 shut-offs, 2 crosses, 2 tees, 2 plugs and all other connections; one-fifth amount must accompany each bid.

**\*Minn., Hopkins**—Bids received by E. A. Close, village recorder, until 7:30 p. m., June 2, for water mains, 6 and 8-inch; check for 5 per cent. Officially advertised in this issue of the Improvement Bulletin.

**Minn., Ivanhoe**—Bids received May 18, 7 p. m., by Leo. J. Lange, clerk, for new water tank on present tower; check for 10 per cent.

**Minn., North Mankato**—Bids received May 20, for installation of water main on Cornelia st., Page av. and Park av.; H. E. Clayton, recorder.

**Minn., Ortonville**—Bids received by E. Scheibe, city clerk, 8 p. m., May 25, for extension of water mains; H. A. LeRoy, city engineer.

**Neb., Laurel**—Bids received 8 p. m., May 21, for construction and extension of water mains; Paul Stewart, clerk; Bruce & Standeven, engineers.

**S. D., Murdo**—Bids received by E. E. Lemon, city auditor,

up to and including the first Monday in June for laying 300 feet of water mains; check for \$300.

**Wis., West Salem**—Bids are being received by S. W. Brown, clerk, for installing a block of 4-inch water mains, 400 feet and one hydrant.

## CONTRACTS AWARDED.

**Iowa, Cherokee**—Contract for laying 5,265 feet of water mains let to C. D. Reynolds of Council Bluffs.

**Iowa, Sheffield**—Chicago Bridge & Iron Works have contract to furnish a 40,000-gallon tank for new water system here.

**Minn., New Ulm**—Contract for reservoir awarded to Circular Concrete Co., Minneapolis, at \$5,360; other bids were as follows: Wm. Murphy & Sons, St. Paul, \$5,422; McManis & Tornoski, St. Paul, \$6,300; J. A. Puhlman, New Ulm, \$5,748; J. G. Gronau, New Ulm, \$7,842; Johnson Construction Co., Minneapolis, \$10,260.

**Neb., Florence**—Contract for excavating for reservoir, let for Kierle Grading Co., and Williams Grading Co.

## THEATRES AND HALLS

*Notes arranged alphabetically by States.*

**Alta., Cardston**—Work has begun on \$300,000 Mormon Temple.

**Alta., Edmonton**—The probable cost of the 8-story addition to Y. M. C. A. building will be \$500,000.

**Iowa, Atlantic**—The Danish Brotherhood voted to build a hall in near future, brick or cement; plans not prepared.

**Iowa, Boone**—Funds being subscribed for Odd Fellows' temple, probable cost \$50,000; 3-story, fireproof.

**Iowa, Chelsea**—Foundation for new picture show building completed.

**Iowa, Clear Lake**—Theater to be built here, of which Bronson Bros. are lessees, will be of brick, steel, cement; terra cotta, art glass, metal work, heating, lighting, plumbing, seatings.

**Iowa, Iowa Falls**—D. D. Gebhart and W. A. Middleton are erecting a \$15,000 building, first floor to be used for a theater and moving picture house.

**Iowa, West Liberty**—J. E. Mills, architect, Detroit, Mich., has the plans about completed for Masonic Temple here; bids will soon be asked for on construction; building will be 3-story and cost about \$25,000; S. C. Snider is one of the directors.

**Minn., Claremont**—Sketches completed for theater and store for syndicate, care W. I. Parsons; 44x90, 2-story and basement; F. W. Kinney, architect, Plymouth building, Minneapolis. Note correction in location, incorrectly located at Fairmont last week.

**Minn., Le Sueur Center**—Jas. Trinka and others purchased site for play house and picture theater and will start work on building at once.

**Minn., Marshall**—A. C. Chittenden & Son announce remodeling of building on Main st. into a modern theater; seating capacity of 600 and cost \$10,000.

**Minn., Marshall**—S. J. Forbes and H. P. Fulton, representing a syndicate of local business men, secured plans for a theater building to cost \$25,000; seating capacity, 700.

**Minn., Two Harbors**—Reported by P. F. Harouff that the order of Yeomen will erect a building for lodge and other purposes; 50x115, concrete and brick, modern; cost about \$23,000.

**Mont., Havre**—Steps being taken to promote building of Eagles' hall this season; W. B. Pyper, secretary.

**Neb., Alliance**—Arrangements completed by W. D. Rumer for 2-story brick business building with theater on ground floor and modern offices above; 50x110.

**Neb., Bloomfield**—Masons will erect lodge building to cost \$10,000.

**Neb., Kearney**—Plans have just been completed by A. B. Lake, architect, for a moving picture theater for F. G. Keene, 50x130.

**Neb., Polk**—Plans for new Odd Fellows hall will be prepared by Mr. Newman, architect, Columbus, Neb.

**Neb., Steele City**—The Steele City Improvement Co. perfecting plans for erection of the proposed new hall; H. E. Clapp, president.

**S. D., Watertown**—Committee of Commercial club, of which Henry D. Rice is chairman, plans to have submitted to people proposition for \$50,000 auditorium.

**Wis., Clintonville**—Building operations to begin at once on new theater and Masonic hall.

**Wis., Glenwood City**—Preparatory work being done for building of Masonic Temple.



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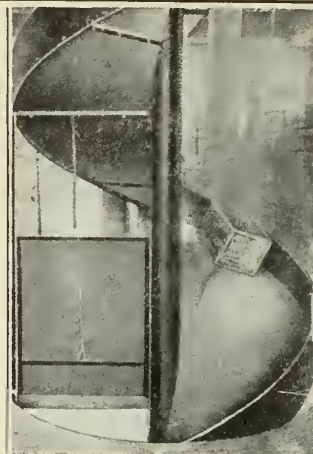
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**Ont., Fort William**—Contract to Seaman & Penniman for Royal Theater on Victoria av. for \$50,000; Fort William Opera Co., owner.

**S. D., Deadwood**—Contract with Mullen & Rourke for a balcony in Pastime theater, adding 80 seats to capacity.

**S. D., Sioux Falls**—Contract with Gray Construction Co., city, for Masonic Temple, work to begin at once; cost \$50,000.

**Wis., Neenah**—The Fox River Fair association will rebuild horse barn recently destroyed by fire.

#### BIDS WANTED.

**\*Minn., Windom**—Bids received by A. F. Strunk, secretary building committee, until 4 p. m., June 2, for a store and Odd Fellows hall. Albert Schippel, architect, Mankato, Minn. Check for \$200. Officially advertised in this issue of the Improvement Bulletin.

**Neb., Wausa**—Bids received by P. H. Peterson, of the building committee, until 3 p. m., June 1, for Masonic building, and store; check \$250; officially advertised in this issue of the Improvement Bulletin.

**Wis., Ashland**—Bids received by Henry Wildhagen, architect, Ashland, Wis., until 10 a. m., May 19, for theater and motion picture building owned by Latts Bros.; 50x134, 2-story brick and stone, semi-fireproof, cost \$25,000; steel trusses and beams, reinforced concrete fireproofing, hollow brick and hollow tile, electric light, sheet metal ventilators, composition and asbestos roof, patent plaster, metal lath, plate, prism, wired, figured, art, and leaded glass and sidewalk lights, tiled floor, also maple and cement.

#### CONTRACTS AWARDED.

**Iowa, Des Moines**—Contract for paddock at state fair grounds let to J. E. Lovejoy at \$8,069; 60x130, brick and wire netting.

**Minn., Bemidji**—Contract for club house for E. A. Purdy, Minneapolis, to be built at Turtle Lake, has been let to John E. Carlson.

**Minn., Chokio**—Contract to Fred A. Carlson for the town hall for Stevens township, at \$1,425.

**Mont., Lewistown**—Contract to the Piper Construction Co. for the theater to be erected adjoining the Bank of Fergus County, and also for a large garage; the theater will seat over 700, construction of concrete and brick, cost of both improvements about \$100,000.

**S. D., Watertown**—Contract to Gray Construction Co., city, for \$60,000 lodge building to be built by the Masons; plumbing and heating not included.

**Neb., Beatrice**—Architects report that remodeling of Paddock hotel will cost about \$65,000, adding 30 rooms.

**Neb., McCook**—Dr. J. G. Reid is enlarging the general hospital by a 16x24 addition.

**S. D., Dell Rapids**—Plans being drawn for modern hospital for the Dell Rapids Hospital Co.; brick or stone.

**Wis., Danbury**—Geo. Clendenning will build small modern hotel near Soo depot.

**Wis., Marinette**—Plans completed for a 4-story hotel to cost about \$50,000; address Jacob Jepson for information.

#### BIDS WANTED.

**Iowa, Council Bluffs**—Bids being taken by F. E. Cox, architect, 45 Baldwin block, for St. Bernard's hospital; 40x100, 2-story and basement, \$45,000.

**Mont., Butte**—County board will call for bids for modern detention hospital; address county clerk.

**Wis., Appleton**—Bids will soon be taken by Aug. Knaeueppel, mayor, for 2-story hospitals; one 28x45 and one 32x49, each 2-story and basement; W. W. DeLong, architect, 772 College av.

**Wis., Hortonville**—Bids soon taken by E. J. Jacquot, owner, on remodeling and addition to hotel; 2-story and basement, 18x30.

#### CONTRACTS AWARDED.

**Minn., Anoka**—Contract with Wm. O'Neil & Son, Faribault, Minn., for cottages 8 and 9, at state insane asylum; each 50x120, 3-story and basement, \$55,000.

**Minn., Jordan**—Contractor Wandersee, Minneapolis, will erect a new fireproof sanitarium at Mudbaden (Jordan), cost about \$40,000.

**Minn., Rochester**—Contract with Foster Electric Co., city, for wiring the new Colonial hotel at \$2,874.

**Minn., St. Cloud**—Contract for plumbing and heating Grand Central hotel, said to have gone to Thos. W. Olson, Hopkins; will include 65 lavatories, 22 bath tubs, 22 closets, 18 shower baths, etc.

**Mont., Agawan**—Contract with U. O. Ballard, city, for \$15,000 hotel building to be erected by Jos. Derenlau and Walter Craigo.

**Wis., Madison**—Contract with F. E. Perinier for main hall and men's dormitory at Tomahawk Lake for about \$8,000.

## PUBLIC BUILDINGS

*Notes arranged alphabetically by States.*

**Iowa, Muscatine**—Citizens will decide on site and vote on bonds for proposed city hall June 2; address city clerk.

**Minn., St. Cloud**—City clerk will advertise for bids for sketches for city lock-up, fire department and city hall; address city clerk.

**Minn., Virginia**—A municipal heating plant to cost \$75,000 is under consideration; address Mayor Boylan; a municipal gas plant may also be installed.

**Neb., Wilber**—The site has been selected for the proposed Gilbert library building; work will be pushed soon as plans are secured.

**N. D., Valley City**—Fire damaged city library to amount of \$3,000.

**Sask., Regina**—The clerk of dominion public works has received instructions from the department of Ottawa to supervise the construction of two cottages to cost \$3,000 on the experimental farm at Scott and Rosthern.

**Sask., Regina**—A municipal hall will soon be erected for North Regina; address L. A. Thornton, city commissioner.

**Wis., Beaver Dam**—The trustees and superintendent of the Dodge county asylum have been authorized to enter into contract for the erection of a new barn and silo on the county farm at a cost of \$3,000.

**Wis., Jefferson**—The county building committee is considering the rebuilding of the county jail; address J. Kerscheneister for further particulars.

#### BIDS WANTED.

**Ariz., Phoenix**—Plans and specifications are on file at the Builders' Exchange, St. Paul, Minn., for the brick industrial building for girls to be built at the Phoenix Indian school and for the construction of which bids will be received by Cato Sells, Indian commissioner, Washington, D. C., until 2 p. m., June 8.

**H. T., Pearl Harbor**—Bids received, bureau of supplies and accounts, Navy department, Washington, D. C., until 10 a. m., June 16, to furnish at the naval station, Pearl Harbor, steel drawer sections for filing cases.

**Ill., Macomb**—Bids received by O. Wenderoth, supervising architect, Washington, D. C., until 3 p. m., June 15, for the

## HOTELS AND HOSPITALS

*Notes arranged alphabetically by States.*

**Alta., Calgary**—The Alberta Tuberculosis association will at once commence the erection of a sanitarium between Mitford and Radnor, about 30 miles northwest of Calgary.

**Iowa, Alton**—Maplewood hotel burned; loss \$10,000; H. B. Groves, Sioux City, owner.

**Iowa, Davenport**—Plans in progress for addition to hospital and chapel owned by Mercy hospital, Mother Aloysia in charge; A. H. Ebeling, architect, 301 Security Building, city.

**Iowa, Melvin**—Addition being built to hotel; address mayor.

**Minn., Austin**—Plans have been prepared for hotel for Fred Scholl; 50x70, 3-story; brick, steam heated and modern.

**Minn., Hayfield**—H. M. Hagestead planning to remodel Cottage hotel; will be given a brick veneer.

**Minn., Hibbing**—State board of health planning extensive improvements for detention hospital here; porch, laundry, sterilizing equipment, up-stairs rooms may be enameled and outside of building painted.

**Minn., Red Wing**—About \$15,000 will be spent in remodeling building at state training school, the larger portion of it in remodeling one of the buildings into a school hospital; state architect will prepare plans.

**Minn., Staples**—Counties of Wadena, Todd and Morrison are getting together on proposition to build a tuberculosis sanitarium; address B. Y. McNairy, auditor, Little Falls.

**Mont., Billings**—Link & Haire, architects, have completed plans for a detention hospital to be built by city and county, which has been agreed upon by those incorporations; expected work will soon begin.

**Mont., Gardiner**—The Yellowstone Park Transportation Co. is remodeling the Mammoth hotel, a large force being employed.

**Mont., Lewistown**—Plans drawn for a 4-story hotel for Slater Bros.

**Mont., Miles City**—Subscriptions reached \$10,000 toward \$30,000 required for Custer county hospital; address county clerk.



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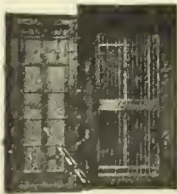
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construction (including the mechanical equipment, interior fixtures and approaches) of a 2-story and basement stone and brick faced building of 4,200 square feet ground area, partly fireproof construction, slate, composition, and tin roof, for the U. S. postoffice.

**Ill., Mt. Vernon**—Bids received by O. Wenderoth, supervising architect, Washington, D. C., until 3 p. m., June 18, for the construction complete (including mechanical equipment, interior lighting fixtures, and approaches) of the U. S. postoffice; the building is two-story and a basement, with a ground area of approximately 5,390 square feet; stone and brick facing; composition roof; first floor only of fireproof construction.

**Iowa, Des Moines**—Bids received by O. Wenderoth, supervising architect, Washington, D. C., until 3 p. m., June 22, for new mailing platform, mail chutes and terminal room, including mechanical equipment, for the U. S. postoffice.

**Kan., McPherson**—Bids received by O. Wenderoth, supervising architect, Washington, D. C., until 3 p. m., June 15, for the construction complete (including mechanical equipment, interior lighting fixtures, and approaches) of the U. S. postoffice, 2-story and basement building; ground area 3,800 square feet; construction non-fireproof; stone and brick facing; composition and slate roof.

**Minn., Brunswick**—Bids received by Ed. L. Peterson, town clerk, until May 18, for a town hall for town of Brunswick, 24x36, material to be furnished by town.

**Minn., Buhl**—Bids received by F. J. Demel, village recorder, until 8 p. m., May 20, for installing pipe fittings, etc., for extension of municipal heating plant.

**\*Minn., Hutchinson**—Bids received by F. N. Moore, city clerk, until noon, June 10, for a brick city hall and fire station. C. E. Bell, architect, Security Bank building, Minneapolis. Check for 5 per cent. Officially advertised in this issue of the Improvement Bulletin.

**Minn., Le Sueur Center**—Bids received by Alphonse A. Tambornino, village recorder, until 8 p. m., May 19, for a village hall and water tank.

**\*Minn., Minneapolis**—Bids received by G. H. Hayes, comptroller, University of Minnesota, until 2 p. m., May 25, for heating plant addition. Check for 2 per cent. Officially advertised in this issue of the Improvement Bulletin.

**Minn., New Ulm**—Bids received by State Armory board, capitol building, St. Paul, Minn., until 2 p. m., May 20, for armory building; plans by Albert Schippel, Mankato; check \$500; John Buschers, Col.

**Minn., Perham**—Bids received by C. A. Matala, village clerk, until 8 p. m., May 14, for a fire department building; check 5 per cent.

**Minn., Windom**—Bids received by Windom lodge No. 108, until June 2, for an Odd Fellows lodge, 35x122, 2-story, brick fireproof, cost about \$20,000; Albert Schippel, architect, Mankato; steel beams, cast columns, reinforced concrete fireproofing, brown lime cut stone, architectural terra cotta, common and pressed brick, steam heat, electric light, skylights, composition roof, common plaster, corner bead, plate and prism glass, maple and composition floors, one hand freight elevator. A. F. Strunk, secretary building committee.

**Okla., Muskogee**—Bids received by O. Wenderoth, supervising architect, Washington, D. C., until June 5, at 3 p. m., for furnishing and installing lighting fixtures for the U. S. postoffice and court house, in accordance with the specifications and drawings enumerated therein, copies of which may be obtained of the supervising architect.

**Ont., Port Arthur**—Bids wanted by J. J. Hackney, commissioner of utilities, until May 18, for a sub-station; also, plans are now complete for the new market building and city police station and bids will soon be called for.

**Sask., Weyburn**—Bids are being taken for a new city hall and bridge.

**S. D., Clear Lake**—Bids received by city clerk about June 1 for proposed city hall.

**Tenn., Winchester**—Bids received by O. Wenderoth, supervising architect, Washington, D. C., until 3 p. m., June 12, for the construction complete (including mechanical equipment, interior lighting fixtures, and approaches) of the U. S. postoffice; 2-story and basement building; ground area 3,800 square feet; construction partially fireproof; stone and brick facing; composition and slate roof.

**D. C., Washington**—Bids received by O. Wenderoth, supervising architect, Washington, D. C., until 3 p. m., May 25, for metal cases, bases, drawers, etc., for the office of the supervising architect; officially advertised in this issue of the Improvement Bulletin.

**Wis., Ashland**—Bids received by Ellis Fisher, secretary, until 10 a. m., June 1, for the court house building; check 5 per cent; officially advertised in this issue of the Improvement Bulletin.

#### CONTRACTS AWARDED.

**Min., Albert Lea**—Contract with the Greene Contracting Co., city, for heating, plumbing, wiring, water and lighting systems, including all machinery and building, for the new poor house, at \$7,250.

**Minn., Park Rapids**—Contract to Wallace Robbins for building new fire hall and remodeling old one into a store building.

**Mont., Glendive**—W. T. Perham, contractor for new city hall, instructed to use Bedford stone in structure; material generally brick.

**Mont., Helena**—Contract to Jas. N. Ainsley to build the new bleachers at \$2,302, and to John Dryburg for an archway at the entrance to the fair grounds at \$1,979.

**N. D., Cooperstown**—Contract to Carl Bjorquist, Moorhead, Minn., for a fireproof vault in the court house at \$2,210; other bidders were T. F. Powers, Fargo, \$2,796; Bowers Bros., Fargo \$2,684; T. M. Swingen, city, \$2,766; John Schlauser, Fargo, \$2,385; Hancock Bros., architect, Fargo.

**N. D., Grand Forks**—Contract with the W. G. Andrus Decorating Co., Clinton, Iowa, for the painting and decorating of the court house, amounting to about \$6,500; Buechner & Orth, architects, St. Paul, Minn.

**Sask., Regina**—Contract with Frid-Lewis Co. for police station at \$147,440.

#### ≡ MILLS AND FACTORIES ≡

**Iowa, Des Moines**—Manchester Biscuit Co. will build a factory here, cost \$215,000.

**Iowa, Marshalltown**—W. W. Doolittle will build a 1-story 30x60, cement block building; cost about \$1,500.

**Iowa, Waterloo**—Fire damaged the Waterloo Broom Works, operated by Philip and Edward Carr; loss about \$3,000.

**Minn., Cloquet**—Rathburn, Hair & Ridgway owners of the box factory here are contemplating enlargement of their plant by a bolt mill.

**Minn., Little Falls**—Fire damaged the paper mill of the Hennepin Paper Co., damaging about 20,000 pounds of paper.

**Minn., Pierz**—C. E. Gravel will soon begin building a large warehouse and feed mill at New Pierz.

**Minn., Stillwater**—The Eagle Box Co., South Stillwater, is building a new factory.

**Mont., Great Falls**—G. E. Oshin received permit to build a 3-story frame milling plant; cost \$1,600.

**N. D., Minot**—F. J. Lizakowski will replace old engine rouse at tow mill with a modern solid cement structure, fireproof.

**Ont., Port Arthur**—Mr. J. E. Conley of Conley Frog & Switch Co. is making arrangements to build a plant between Port Arthur and Ft. William.

**Sask., Regina**—Leitch Bros. Milling Co. will build a mill.

**Sask., Regina**—Metal Shingle & Siding Co., of Canada, will erect a branch factory here, immediately; W. R. McKenzie appointed Regina manager of this company.

**S. D., Aberdeen**—A. W. Voedisch received permit to build a 1-story cement block factory.

**Wis., Fort Huron**—Fire damaged the plant of the Ft. Huron Lumber Co., about \$30,000.

**Wis., Milwaukee**—Wisconsin Plumbing & Heating Supply Co. will build a factory soon.

**Wis., Rhinelander**—Work has commenced on plant of the Sulphate Fibre Co.

**Wis., Shawano**—The Farmers' Brewing Co., will build a 40x60, 2-story solid brick bottling house; plans by C. C. Fritz.

**Wis., Two Rivers**—New addition to Hamilton plant will be brick, steel and cement.

#### BIDS WANTED.

**Mont., Great Falls**—Bids were received for a large packing plant and abattoir, for the Great Falls Meat Co., cost about \$200,000; plans by C. F. Kramath of Spokane; 134x190, 3-story.

#### CONTRACTS AWARDED.

**Iowa, Cedar Falls**—Contract awarded to Geo. Bishop, for addition to foundry building, 60x130, brick, work commenced.

**Iowa, Davenport**—Purity Oats Co. will build addition to plant; capital stock increased from \$200,000 to \$500,000.

**Minn., Thief River Falls**—The Thief River Falls Iron Works will build a modern new foundry and cupola, contract awarded to J. Pepper, city, at \$9,000; J. J. Richter, manager; R. J. McGinn, president.

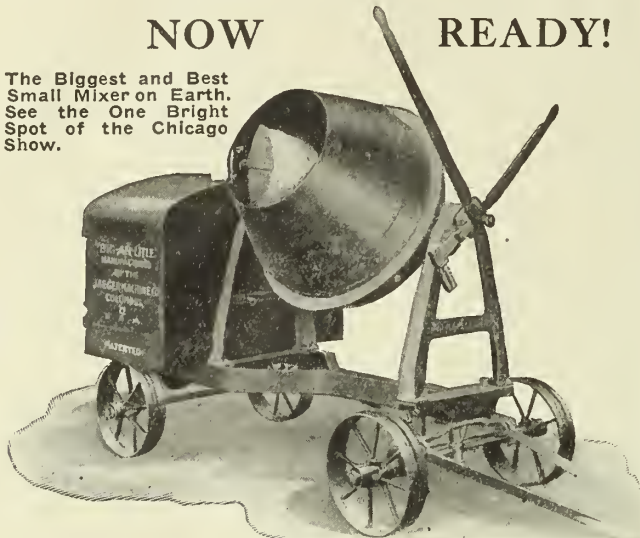
**Wis., Ellsworth**—Chas. Kampfer & Son, of St. Paul, have contract for new creamery for Lawron Co-operative Butter & Cheese Co., at \$9,425, work to commence soon.

**Wis., Neenah**—Neenah Brass Works Co. have let contract to Anton Nielson Co., Neenah for large addition to their plant.



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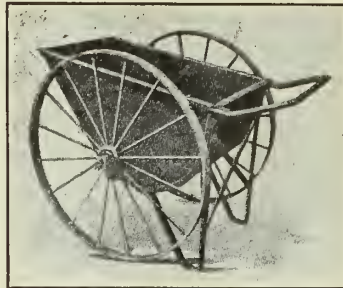
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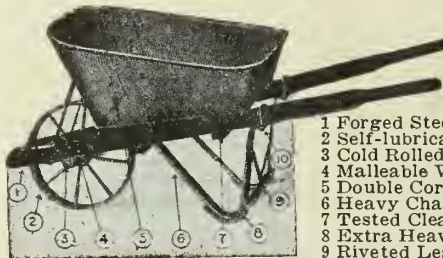


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derrick, 225 pounds.  
Capacity 1,500 pounds.



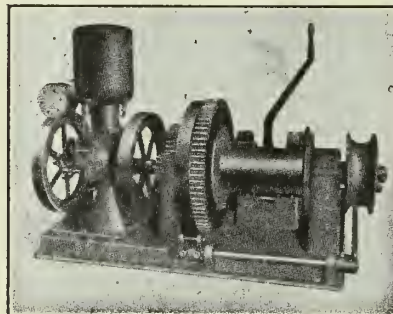
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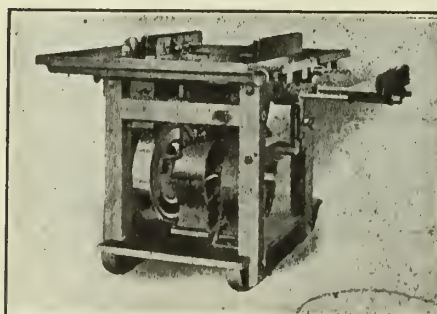
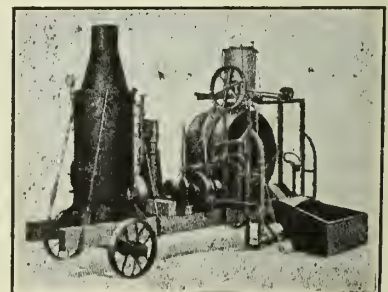
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## CHURCHES

*Notes arranged alphabetically by States.*

**Iowa, Creston**—The Pilgrim Congregational church burned.  
**Iowa, Davenport**—A \$40,000 church and school will be built by German Evangelical Lutheran association; Rev. O. Horn, pastor, 511 Myrtle st., plans in progress by architect B. W. Gartside, 526 Lane building.

**Iowa, Davenport**—Plans in progress for addition by architect A. H. Ebeling, 301 Security building, a chapel and hospital building, Mercy hospital, Mother Aloysia in charge.

**Iowa, Mason City**—German Methodist church will be remodeled, modern throughout; Rev. Hein, pastor.

**Iowa, Goldfield**—The M. E. church are contemplating building a new brick church to cost about \$15,000; A. Hopkinson, pastor.

\***Iowa, Ruthven**—\$16,000 M. E. church will be built here.

\***Minn., Carver**—Work has begun on foundation on the Lutheran church; contract let to contractor Hansen.

**Minn., New Ulm**—Fire damaged the German M. E. church about \$10,000.

\***Minn., Owatonna**—Presbyterian society will build a modern edifice; cost, about \$40,000.

**Minn., Springfield**—The German M. E. church will be remodeled, contract let to Ernst Puhlmann; Rev. Biebighauser, pastor.

**Mont., Judith Gap**—A site has been chosen, and a new Catholic church, will be erected; Dr. E. M. Gans, P. J. Murphy and Chas. Sullivan, committee.

**Neb., Lincoln**—Congregational church will be remodeled, cost \$2,000.

**Neb., Oakland**—Modern M. E. church will be built here.

**S. D., Martin**—Rev. Father Westropp is agitating question of a new church.

**N. D., Ryder**—Presbyterian church will be built; cost about \$3,000.

**Wis., Appleton**—Wm. Sheer, city, fresco painter, has decorating contract for church at Antigo; also the Capushun church at Detroit for Father Ingatius; also church in Campbellsport near Fond du Lac.

**Wis., Madison**—The congregation of Christ Presbyterian church will rebuild edifice recently damaged by fire.

## BIDS WANTED.

**Iowa, Manchester**—New bids are being taken on the R. C. church building, E. L. Masqueray, architect, 595 Endicott Arcade, St. Paul, Minn.; cost \$10,000.

**Minn., Winona**—Bids received until May 20, 12 m., for brick church for the Olive Branch Church association; plans with architects Van Dusen & Stevens; check for 5 per cent; H. A. Carlin, chairman; Chas. A. Millam, secretary-treasurer, building committee.

**S. D., Sioux Falls**—A brick and shingle church will be built by the Jordan M. E. congregation; plans by architect John C. Chapman; cost \$12,000; bids received until May 18, 8 p. m., kitchen, dining room and gymnasium in basement, lockers, shower baths; seating capacity 300.

## CONTRACTS AWARDED.

\***Iowa, Akron**—Contract for German Lutheran church was let to A. M. Willey & Co., of Algona, Iowa, contract price between \$6,000 and \$7,000, work to start at once.

\***Iowa, Terrill**—Contract awarded to Nichols & Brown, Panora, Iowa, for a brick veneer, M. E. church, at \$7,304; other bid was A. M. Willey & Co., Algona, Iowa, at \$10,500; Rev. Thos. Griffith, pastor, Max Chas. Price, architect.

**Neb., Creighton**—Contract awarded to E. J. Winget for M. E. church.

**Wis., Berlin**—General contract let to Kramp & Ceman for a church, Evangelical Church association; Rev. Bearbaum, pastor, private plans.

## SCHOOLS

*Items marked with asterisks not run in Daily Sheets.*

**Alta., Edmonton**—Bids will be issued for construction of addition to the Rutherford school of eight rooms and four rooms addition to McCauley school.

**Ind., Ft. Wayne**—The Lutheran Synod, provided \$20,000 for new buildings for Lutheran college here.

**Iowa, Grant**—A \$19,000 school building will be built here.

**Iowa, Iowa City**—The board of education will build two modern gymnasiums, \$125,000 voted for same.

**Iowa, Keystone**—Plans were drawn for a public school building, 42x80, 2-story and basement, by Wm. Pedicord,

architect, Waterloo, Iowa; brick, and tile, asphalt, shingle roof, structural iron work, gymnasium, shower bath, steam heat, etc., 6-rooms, besides principal's room, library, teachers' rooms, domestic science, 12 toilet rooms; W. J. Harding, secretary.

**Iowa, Marshalltown**—Plans will be drawn by architect Harry E. Reimer, of Marshalltown, for two consolidated schools; a 6-room building, costing \$20,000, in village of Van Cleve; the Bangor Consolidated school district, 4-room building, cost \$18,000.

**Iowa, Melvin**—School will be built here this year.

**Iowa, Prescott**—Contract awarded to an Omaha firm for new school building.

**Iowa, Sioux City**—Riverview school will be rebuilt, 9-rooms, solid brick, modern.

**Iowa, Toledo**—Contract awarded to C. W. Ennis of Toledo, for general contract on new school, at \$56,000; the Nevada Heating & Plumbing Co., of Nevada, heating and plumbing contract, at \$14,220; electrical wiring, to Davis & Evans, Toledo at \$1,049; Earl Wolfe, superintendent of construction.

**Kans, Winfield**—\$15,000 for new building at St. John's college was recommended at meeting of the Lutheran synod.

**Man., Tyndall**—\$16,000 voted for erection of school, work to start soon as plans are completed.

**Mich., Stephenson**—Plans by Derrick Hubert, architect, Menomoneie, Mich., for a brick, 2-story school building, 79x64, cost \$15,000; artificial cut stone, common pressed brick, steam heat, wood shingle roof, patent plaster, metal corner bead.

**Minn., Clarissa**—Two-story, 4-grade room, brick school building with basement; according to plans and specifications submitted by K. T. Snyder, architect, Minneapolis, Minn., plans and specifications approved by state commissioner.

**Minn., Douglas County**—District No. 23, 1-story, 2-room frame building with basement; according to plans submitted by A. M. Foker, Alexandria, Minn., clerk, Henry Grosenick, Garfield, Minn.; plans and specifications approved by state commissioner.

**Minn., Ely**—Work will soon start on new modern school building, contract to be let about June 1, 200-foot frontage, gymnasium, auditorium heating 1,200.

\***Minn., Kiester**—Plans approved for a 1-room school, frame, in district No. 127, Kiester township; O. J. Seberg, district clerk.

**Minn., Melrose**—Plans are being discussed for rebuilding the school recently burned; cost about \$60,000, St. Cloud granite may be used in construction.

**Minn., Middle River**—\$16,000 bonds voted for a modern school and addition to old.

**Minn., Red Lake County**—District No. 234, 1-room frame school building without basement; clerk, Matt Pokela, Plummer, Minn., approved by state commissioner.

**Minn., Sherburn**—Heating and ventilating system for school building; engineers, Moline Vacuum-Vapor Heating Co., Moline, Ill., clerk, D. M. Reynolds, Sherburn, Minn., plans and specifications approved by state commissioner.

**Mont., Chinook**—School district No. 4, will build a new school building; plans on file at the California fruit store; bids being called for.

**Mont., Deer Lodge**—A new and modern school will be built here, plans for building prepared; will be erected by the Deer Lodge Valley Farm association; Dr. Gardner, interested.

**Mont., Hobson**—School bonds of \$2,200 were voted in district No. 2.

**Neb., Burwell**—Plans completed for a brick school building by C. W. Way & Co., architects, Hastings, Neb., contract let about May 11; cost \$1,600.

**Neb., Craig**—Plans in progress by architect, W. F. Gernandt, 513-14 Karbach building, Omaha, Neb., for a public school building, brick and stone semi-fireproof, 2-story and basement, 88x60; cost \$25,000; steel beams and columns, fireproof gypsum block, lime cut stone, common pressed brick; steam heat, city well water, private electric light plant, sheet metal, tin or asbestos roof, plaster board, metal lath, corner bead, white lead or oil paint, best on market, varnish, plate, prism, wired and ribbed glass, yellow pine finish, yellow pine floors, details later; bids taken by board or architect, about June 15; J. D. Gordon, secretary.

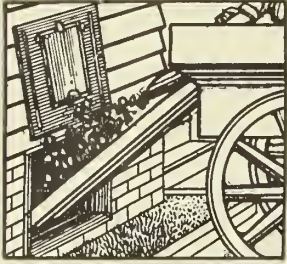
**Neb., Elmwood**—Tornado destroyed the school building here.

**Neb., Winnetoon**—Plans by architect J. R. Smith, Lincoln, Neb., for a brick 2-story school building, 32x62, cost \$8,000; bids taken June 1, by secretary H. W. Crandell, Winnetoon; lime cut stone, common, pressed brick, furnace heat, sheet metal cornice, corner bead; samples and prices of face brick, wanted at once by secretary board of education.

\***N. D., Enderlin**—The school board is planning to put steel



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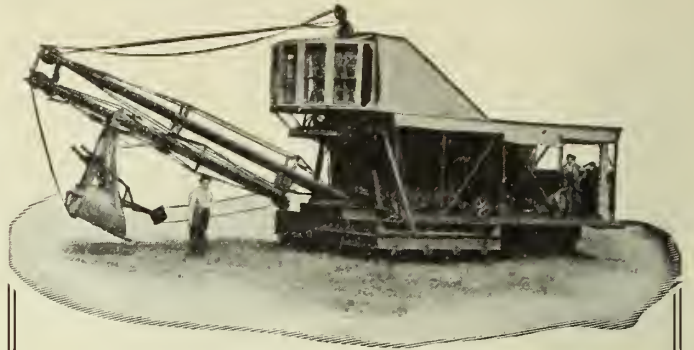
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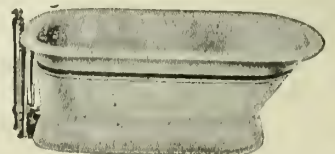


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ceilings in all of the school houses in township, in place of plaster.

**N. D., Yankton**—Girls' dormitory, cost \$75,000; tentative plans drawn by Grant Miller of Chicago.

**Wis., Madison**—School will be built at Fair Oaks, (not P. O.).

**\*Wis., Reeve**—District No. 3 voted to build a brick school, cost about \$5,000.

#### BIDS WANTED.

**Iowa, Batavia**—Bids received until noon May 30, for a 2-story brick school building; check \$1900; G. W. Kerns, architect, Ottumwa, Iowa; Chas. Frescoln, president school board.

**Iowa, Farmersburg**—A \$10,000 school building will be erected here, this summer.

**Iowa, Garner**—Bids received until May 22, for a high school for particulars address J. N. Sproule, president, Gardner.

**Iowa, Humboldt**—Bids received by J. E. Barker, secretary, until 7 p. m., May 25, for a complete system of plumbing in both high school and grade buildings; officially advertised in this issue of the Improvement Bulletin.

**Iowa, Le Mars**—Bids received by I. J. McDuffie, president board of education, until 6 p. m., May 27, for a steam heating and ventilating plant in public school building; check 5 per cent; officially advertised in this issue of the Improvement Bulletin.

**\*Iowa, Rowan**—Bids received until 1:30 p. m., June 6, for a public school building, consolidated independent district of Rowan, separate bids on general construction, heating, plumbing and ventilating, fan and equipment; plans prepared by Architect James F. Cox, and can be seen at his office, or office of M. L. Howell, county superintendent, Clarion, Wright county; check for 3 per cent; Geo. Kirkpatrick, secretary.

**\*Iowa, Greenfield**—Bids received until 1 p. m., May 23, for a school in subdistrict No. 4, Grand River township; Henry S. Young, secretary.

**Mich., Manistique**—Bids received until May 25, 7 p. m., for a school building, modern, plans by architects Foeller & Schoeber, Green Bay, Wis., plans at office of Builders' & Traders' Exchange, Milwaukee, Wis., and the American Contractor, Chicago, Ill., also at residence of Rev. B. J. Schevers, Manistique; separate bids received on following: mason work; cut stone work, terra cotta; structural steel and iron; carpenter, including plaster and glazing; hardware; roofing; painting; plumbing; heating; ventilating and electric wiring; check for each bid 5 per cent.

**\*Minn., Crosby**—Letting of Crosby school, Crosby, N. D., deferred until May 25. Plans on file at Minneapolis Builders' & Traders' Exchange, and St. Paul Exchange, at the office of the clerk at Crosby, and at the office of the architect, R. T. Frost, Minot.

**Minn., Ely**—Bids received by Thos. E. Miller, secretary school board, until 2 p. m., June 1, for a 24-room, fireproof school building for independent district No. 12, St. Louis county; officially advertised in this issue of the Improvement Bulletin.

**Minn., Foreston**—Bids received by C. O. Schwartz, clerk, until 11 a. m., June 1, for a 2-room school building and heating plant; check 5 per cent; officially advertised in this issue of the Improvement Bulletin.

**\*Minn., La Porte**—Bids received until 2 p. m., May 22, for general construction, heating, ventilating of consolidated school building, district 43; plans prepared by E. F. Broomhall, architect, 710 Aldworth building, Duluth, Minn.; plans with architect; Builders' Exchange, St. Paul and Duluth, Minn.; check 3 per cent, Elliott B. Scott, secretary; C. M. Dally, president; separate bids for each.

**Minn., Richmond**—Bids received until May 18, for a new school district No. 207; check \$50; plans with clerk, Frank Rothstein, R. 2.

**\*Minn., Sherburn**—Bids received by D. M. Reynolds, secretary, until 8 p. m., May 29, for a heating and ventilating plant for school house. Check for 5 per cent. Officially advertised in this issue of the Improvement Bulletin.

**Minn., St. Peter**—Bids received until 2 p. m., May 12, for a school in consolidated school district No. 43, Nicollet county brick, full basement; separate bids received at same time and place on heating and plumbing; check \$100, A. M. Youngblom, clerk.

**Mont., Billings**—Bids received until May 23, for construction of a 2-room school building, at Pompeys Pillar, check 5 per cent; plans at Link & Haire, architects, Stapleton block, Billings, Mont. and district principal or clerk, high school, Worden, Mont.

**Mont., Hysham**—Bids received until 10 a. m., May 22, for 2d story on present school building; check 5 per cent; plans by Linke & Haire, architects, Billings, Mont.; plans at office of architects, Hysham State Bank; H. A. Crane, clerk.

**\*Mont., Pompeys Pillar**—Bids received until May 23, for a 2-room school building, district No. 24, Yellowstone county, Mont.; check 5 per cent; plans at office of Link & Haire, architects, Stapleton block, Billings, or office of district principal and clerk, high school building, Worden, Mont.

**Mont., Sidney**—Bids for the new school will be opened about June 2, plans by architect Gillespie, Fargo, N. D.

**Mont., Yellowstone**—Bids received until May 20, 6 p. m., for two schools in district No. 69, county of Gallatin, one in Yellowstone and one in Madison Basin; plans at store of clerk, S. P. Eagle, Yellowstone.

**Neb., Battle Creek**—Bids received until May 23, for an addition to Battle Creek high school; check \$500; plans with Citizens' State Bank; H. G. Whitney, secretary.

**Neb., Lincoln**—Bids received by board of commissioners of state institutions, State Capitol, Lincoln, until 2 p. m., May 23, for construction of a brick and stone auditorium building at the girls' industrial school, Geneva, Neb., plans by Joseph W. Salmon, architect; face brick, plumbing, electric wiring, heating, modern, separate bids for each; check for 5 per cent; Silas A. Holcomb, chairman.

**Neb., Upland**—Bids received until May 11, for a brick school house; plans by C. W. Way & Co., architects, Hastings, Neb.

**N. D., Deapolis**—Bids received until May 23, 1 p. m., for a school building and basement; also foundation for hall extension, 8x18, for further advice address Frank Ankarberg, or J. E. Novag of Deapolis, N. D.; Emil Olander, clerk.

**N. D., Linton**—Bids received until June 13, for school building, Wells district, frame, 16x24, 10-foot posts, 12-foot ceiling, cement foundation, sheeted shiplap, wainscoted 3 feet, 7 windows, 3 doors, chimney from pier, 8x12 inches, flue, sided papered, maple floors, partitions, coal shed, etc., plans with Jacob Rau, clerk.

**N. D., Rolla**—Bids received until May 30, 2 p. m., for an 18-foot addition to school house No. 3, Lakeview school district No. 19; check \$200; Mrs. Jas. S. Lewis, clerk.

**N. D., Stady**—Bids received until 2 p. m., May 18, for a school, Writing Rock district, Divide county; plans at First State Bank, Stady, N. D.; R. S. Stauffer, clerk.

**Sask., Bresaylor**—Bids received until May 23, for a school building and two toilets in Battlebank; D. J. Hooey, secretary-treasurer, Battlebank, S. D., No. 5125.

**Sask., Star City**—Bids received until 10 a. m., May 30, for addition to Star City school; plans at office of H. H. Sheriff, secretary-treasurer district No. 1475.

**S. D., Marion**—Bids received until 8 p. m., May 22, for an addition to school building; check 5 per cent; plans on file at clerk's office or at architect's, Joseph Schwartz, Sioux Falls, S. D.

**S. D., Parker**—Bids received until 2 p. m., June 6, for a school building, district No. 79, Hurley township; plans at home of J. H. Buckner, or office of Parker Press-Leader.

**Wis., Arcadia**—Bids were received 11 a. m., May 12, for a stone and brick veneer school building; plans by J. G. Schneider, Arcadia, Wis.; check 2 per cent; plans at Leader office, Rev. L. T. Orlik or J. G. Schneider's office.

**Wis., Chippewa Falls**—Bids received by Ralph E. Smith, president state board of control, Madison, Wis., until 2 p. m., June 3, for a school building at the home for the feeble-minded near Chippewa Falls; check 4 per cent; officially advertised in this week's issue of the Improvement Bulletin.

**\*Wis., Madison**—Normal school board has agreed to postpone building dormitory at Stevens Point, the \$100,000 building at Oshkosh, \$45,000 building at La Crosse; \$65,000 building at Plattville; no action taken in regard to new \$225,000 building at Eau Claire.

#### CONTRACTS AWARDED.

**\*Iowa, Marshalltown**—General contract for First Ward school building awarded to C. F. Reimer & Co., at \$24,970; plumbing to McCarten Plumbing Co., at \$990; heating and ventilating to Buchanan-Boughton Co., at \$3,442; electrical to Buchanan-Boughton Co., at \$400; bids aggregate \$29,802; board substituted plaster ceiling for second story instead of cement and yellow pine in place of birch.

**Minn., Faribault**—Contract awarded to O'Neill & Son for new dormitory at Shattuck school, cost \$35,000.

**Minn., Granada**—Contract awarded to C. M. Masters, Mankato, Minn., for heating, ventilating and plumbing in school at \$5,081; other bids were J. P. Green & Co., Albert Lea, Minn., \$5,696; McGrath Co., Minneapolis, \$5,998; Kirby T. Snyder, architect, 750 Plymouth building, Minneapolis.

**Minn., Jackson**—Contract awarded to Wm. Lockner of Lakefield for building school in district No. 72, to replace one burned; Sioux Valley township; contract price \$1,165.

**Minn., Pequot**—Contract awarded to the Mason Lumber Co. of Pallisade Aitkin Co., for new school at \$18,694.





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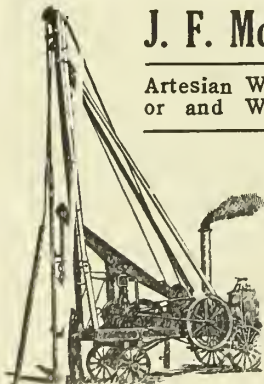
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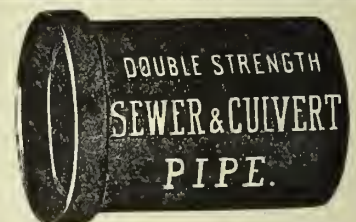


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**Neb., Norfolk**—Contracts let for two new modern fireproof schools, cost \$47,000; junior high school to Falldorf & Hempel of Grand Island, Neb., H. E. Wood, of Aurora, contract for S. Norfolk grade school, plumbing to B. O. Daubert, Norfolk; electrical to Bruggeman Bros., Norfolk; M. E. Crosier, secretary.

**N. D., Ardoch**—Contract awarded to K. C. Hunter, of Grand Forks, for new school building, at \$8,392; other bids were: Northern Construction Co., Geo. Buckingham, Melby & Standahl, Dinnie Bros., all of Grand Forks, Nollman, Lewis & Brye, of Grafton, J. Pepper of Thief River Falls; and A. S. Randolph, Detroit, Minn.; heating plant contract; Springs Bros., O. G. Foss and Dakota Heating & Plumbing Co., Grand Forks, Geo. Loos, Grafton, Thief River Plumbing & Heating Co., and F. A. Spencer, Minneapolis; contract not let yet.

**Wis., Edgar**—Julius Hansen of Marshfield and J. F. Weinberg, Grand Rapids, have contract for Parochial school for Catholic denomination; cost \$12,000, 2-story, brick and tile, modern heating plant.

**Wis., Oshkosh**—Contracts awarded as follows on 11th ward school building, heating to W. L. Dukerschein Heating & Ventilating Co., at \$6,300; furnishing all material and labor for plumbing to Mueller Bros., at \$4,850; plans by architect Wm. Waters; general contract to C. R. Meyers & Sons Co., at \$31,937.

**Wyo., Douglas**—Contract awarded for Converse county high school to W. L. Killebrew.

## ELECTRICAL

*Notes arranged alphabetically by States.*

**Iowa, Dubuque**—Union Electric Co. has commenced work on extension of West Locust st. car line.

**Iowa, Dumont**—Hampton Light & Power Co. received a franchise for electric lights here; work to begin at once.

**Iowa, Sac City**—Sac City Electric Co. let contract for erection of generating plant, 60x80, concrete blocks; new equipment will be installed.

**Minn., Hibbing**—W. J. Ryder of water and light board has been authorized to have Earl Jackson, St. Paul, engineer to submit a report on plans and estimates for a modern electric light plant for the village.

**Minn., Long Prairie**—Business men are taking steps for a white way lighting system.

**Minn., Madelia**—This city will install a white way lighting system; Thos. McGovern, manager of the Madelia Electric Co. will have charge.

**Minn., Madison Lake**—Consumers Power Co. granted franchise to Consumers' Power Co. to furnish village with electricity.

**Minn., New York Mills**—Council decided to have an electric light plant installed by party who puts in low bid.

**Minn., Tracy**—Tracy summer dwellers at Lake Shetek have formed a company for erection of private telephone line to connect with Northwestern here.

**Minn., Verndale**—Council ordered H. M. Hicks, owner of the electric light plant to move all poles and wires from village streets.

**Minn., Virginia**—Park Commissioner Clerk Shipley is advertising for bids to be opened in about two weeks for Olcott and South Park sts.

**Mont., Anaconda**—Council considering lighting system to cost \$4,500.

**Mont., Helena**—City clerk was instructed to advertise for 400 ornamental lights.

**Neb., Allen**—Good Bros. let contract for tile building for electric light plant here.

**N. D., Churches Ferry**—Commercial club may consider electric lights for the town.

**N. D., Hankinson**—A transmission line will be built here from Fairmount.

### BIDS WANTED.

**Iowa, Minden**—Bids received by town clerk, May 25, for installation of electric light plant and distributing system, Fairbanks, Morse & Co., engineers, Omaha.

**Minn., Melrose**—Bids received by F. J. Weissner, city clerk, until 9 p. m., May 26, for an electrical engine; officially advertised in this issue of the Improvement Bulletin.

**Mont., Bozeman**—Ordinance in council requiring Montana Power Co. to place its wires in business district under ground.

**Mont., Helena**—Bids received by Percy Whitner, city clerk, 8 p. m., May 18, for 400 cast iron lamp posts; check for 10 per cent.

### CONTRACTS AWARDED.

**S. D., Elk Point**—Contract for electric light system granted to Foos Gas Engine Co., Springfield, O., at \$25,690.

## ELEVATORS

*Notes arranged alphabetically by States.*

**Iowa, Larchwood**—Contractors have begun work on the Moreland & Shuttleworth elevator at Granite.

**Minn., Breckenridge**—Farmers' elevator is being built here.

**Minn., Princeton**—Farmers of Opstead, Malmo, Eastwood and other points on Mille Lacs lake, have organized and will build a potato warehouse.

**N. D., McCanna**—Fire destroyed H. H. Walland elevator; loss estimated at \$12,000; insured at \$9,000.

**S. D., Newark**—Plans are being considered for remodeling the Empire elevator here.

### BIDS WANTED.

**Alta., Calgary**—The Dominion government are calling for bids to close June 1, for a \$400,000 reinforced concrete, grain elevator.

### CONTRACTS AWARDED.

**Iowa, Grand Junction**—Younglove Construction Co., Sioux City, Iowa, has contract for Farmers' Elevator at Panorama, frame, capacity 200,000 bushels.

**Minn., Breckenridge**—Contract awarded by directors of the Equity Elevator Co. for elevator, to the Hickok Construction Co., Minneapolis, at \$5,800; 25,000-bushel capacity, 15 h. p. motor will be installed; F. O. Pierce and W. E. Heathcote, president and manager.

**Wis., Peshtigo**—Chas. F. Murphy will build a new potato warehouse at Lena, contract let to Contractor; Chadwick, of Coleman.

## GARAGES AND BARNs

*Notes arranged alphabetically by States.*

**Iowa**—Following will build garages: Norwich—David Brown. Dayton—C. E. Freeburn, brick. Cedar Falls—Ed. Carney, cement block. Keosauqua, H. E. Blackledge.

\***Minn., Willmar**—J. H. Olson, contractor, is building addition to garage, 22x50, and 50x50, brick, 2-story, steel girders, concrete floor, plumbing, wiring. D. M. Tallman, owner, Willmar.

**Minnesota**—Following will build garages: Ingrens & Ostlund. Red Lake Falls—The Helm Bros. Auto Co., modern, frame, steel covered. Biwabik—Emil Korhonen and Albert Nori. Montgomery—Dvorak Bros., modern. Adams—J. H. Carey, large modern. Le Sueur Center—T. A. Pomijie, modern, Kasota stone. Sleepy Eye—Woodrirk Bros., contract let to J. B. Nelson Construction Co., Mankato, Minn., \$12,000. Fairmont—Bids received until May 22, 11 a. m., for garage on Courthouse grounds for sheriff; plans at office of county auditor, H. C. Nolte, Martin county, check for 5 per cent.

**Minnesota**—Following will build barns: New Richland—Chas. Radtke, modern. Madison—Albert Kleven, large modern.

**Wisconsin**—Following will build garages: Bloomer—Werner & Sons, fireproof, modern. Viroqua—Kinder Bros., 45x100, concrete and tile. Eau Claire—Stubbe & Stelter, concrete block, 2-story. Frederic—Erickson & Morrill, modern concrete.

**Wisconsin**—Following will build barns. Glenwood—C. A. Smith. Menomonie—H. P. Hatch, basement barn, modern. Beaver Dam—Adam Schoeffel.

## BUSINESS BUILDINGS

*Notes arranged alphabetically by States.*

**Alta., Redcliff**—Royal Bank is having plans prepared for a new bank building.

**Iowa, Council Bluffs**—Bids have been received by J. Chris Jensen for store building for Mrs. Mary Nutt, of Brookline, Mass., 1-story and basement, pressed brick construction, modern throughout, estimated cost \$6,000.

**Iowa, Davenport**—Bettendorf Co. will build a 3-story fireproof office building.

**Iowa, Dougherty**—W. J. Shristian will build a 2-story brick store building, terra cotta front, marble stairways and ornamental iron, marble wainscoting, tile floors, plate glass, metal sash; plans by architect J. W. Trafzer, Mason City, Iowa; 20-1/2x124; 1st story business, 2d story studio and offices.

**Iowa, Estherville**—O. Neville is getting estimates for 2-story brick building.



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**Iowa, Waterloo**—Leavitt & Johnson will build a 12-story business building; plans by Des Moines architects, contract let to H. A. Maine Co.

**Iowa, Waterloo**—H. A. Maine of the Maine Construction Co., is having plans drawn for a 16-story building offices, to be erected in the next two years.

**Minn., Ashby**—Foundation is being laid for Mrs. Paulson's new millinery store building.

**Minn., Bemidji**—C. E. Battles and the Model Manufacturing Co., will build a 2-story brick building; cost about \$35,000; press brick and plate glass fronts, modern.

**Minn., Fairmont**—J. K. Tanner has commenced excavation for his business block.

**Minn., Fertile**—Chas. Tschida is planning to build a 2-story brick building.

**Minn., Graceville**—P. H. Cauley will rebuild furniture store.

**Minn., Grand Rapids**—Fire damaged Marr building, \$5,000, insured, occupied by Allen Dry Goods Co., offices of Dr. G. E. Hoeper and F. A. McVicar.

**Minn., Holdingford**—Val Herman plans to build a brick block, 2-story.

**Minn., Humboldt**—Fire destroyed Ester Bros.' general store, Florence hardware store, Clow's restaurant, meat market, postoffice and other buildings.

**Minn., Lakefield**—Work will soon start on the James Rost's implement warehouse; hollow tile brick, veneered, modern, 2-story, 50x80.

**Neb., Havelock**—Permits issued to R. J. Jones, for a brick second story to his business building; also to H. N. Franstedt, for a second story to Ackerman billiard hall, brick.

**Neb., Lincoln**—As soon as plans are finished by architects Berlinghof & Davis, work will commence on rebuilding Miller & Paine's store.

**Neb., Minatare**—Ross V. Taylor will build a 20x60 foot brick addition to present building; contract let to Mr. Leafgreen.

**Neb., Minden**—O. W. Pitches will build a brick block here.

**Neb., Minden**—L. A. Crisler will build a brick business block this summer, 22x70, modern.

**Neb., Neligh**—Hans Lorenzen and W. J. Creedon are planning to build a brick block soon.

**Neb., Seward**—The Babson-Dickman Implement Co. will build a new modern 1-story, 60x90, block.

**Neb., Waterbury**—Bales & Goodell will build a new brick store here, at once, 24x70, 1-story.

**N. D., Cummings**—The A. J. Carver & Co., general store burned; loss about \$12,000; insured at \$1,400.

**S. D., Iroquois**—A new modern block will be built here, ornamental fronts; Farmers & Merchants' Bank will build a modern bank building.

**S. D., Sioux Falls**—John P. Bleege will build a modern business building.

**S. D., Wagner**—Fire damaged First State Bank building; C. K. Shay, merchant, \$3,000; E. C. Schrieb, \$1,500; First State Bank owner of building, \$4,000; Hotel Majestic, \$3,000; Farm & Home Telephone Co., \$2,500.

**Wis., Delevan**—F. P. Van Velzer will build a business block, 3-story, 60x72.

**Wis., Laona**—The Connor Co. will build a new brick store.

**Wis., Maiden Rock**—Fire destroyed general store of E. Langer furniture store of C. H. Schleuter and dwelling; loss estimated at \$10,000.

**Wis., Merrill**—F. C. Zemlika will build a modern store building to replace one recently burned; brick veneer.

**Wis., Oshkosh**—A 2-story brick building will be erected by F. W. Mueller, 25x90.

**Wis., Shell Lake**—R. C. Smalley will erect a building for a general machine, garage and blacksmith shop.

**Wis., Sparta**—Wm. Wettstein will build a modern brick business building.

**Wis., Two Rivers**—Chas. Saubert is building a modern brick building.

#### BIDS WANTED.

**Iowa, Sigourney**—Keokuk County State Bank will receive bids for the remodeling bank building; iron work, bank, fixtures, vault doors; plate and prism glass, marble base and wainscot, electric lights, hardwood finish; bids close 12 m. May 10; address Frank Schakenburg, cashier; D. T. Seger, architect, Sigourney, Iowa.

**Man., Shoal Lake**—Bids received until May 25, for a new church, by Thos. Short, secretary-treasurer.

**Neb., Ceresco**—Bids will be received by P. W. Peterson, village clerk, for a 1-story cement block building, 24x40; plans at Otto Eliason's store.

**N. D., Tower City**—Bids received until May 15, 12 noon, for First National Bank; plans by C. E. Bell, architect, Security building, Minneapolis; plans at office of owner, Tower City; address S. F. Sherman, cashier, Tower City, N. D.

**Wis., Green Bay**—A store and office building will be built by Drs. Fairfield and Bartran, Green Bay, 66x66, cost \$30,000; 2-story and basement, reinforced concrete, press brick facing, two sides, terra cotta, trim, iron stairs, store fronts, plate and prism glass, gravel roof, oak interior, trim steam heat, plumbing, electric wiring; bids will be received until May 26, by Foeller & Schober, architects, Green Bay, Wis.

#### CONTRACTS AWARDED.

**Iowa, Cedar Rapids**—John Blaud Sons Co. will build, contract will be let at once, 5-story, modern; also the Western Grocery Co., which has purchased the Frick-Stearns-Russell Grocery Co., wholesale, and will improve same; Geo. P. Smith, vice president, Western Grocery Co.

**Minn., Finlayson**—Contract awarded to Hokstad Bros. for the Ancona brick block.

**Minn., Madison**—Contract awarded to T. T. Roderberg, of Montevideo for building Thompson store.

**Minn., Mankato**—Contract awarded to J. B. Nelson Construction Co., city, for bakery building for C. A. Keene, brick, 25x40, 1-story and basement; cost \$7,500.

**Mont., Libby**—John H. Geiger let contract for a 2-story business block, brick veneer, 25x65, contract let to D. Frank Pivel.

**Neb., Emerson**—Contract let by Bales & Goodell of Waterbury, to Chas. Moran and Arthur Roberts of Allen for a 24x70, brick store building.

**N. D., Grand Forks**—Contract awarded to Ingemann Bros., St. Paul for the Scandinavian American Bank building; bids on plumbing, heating and lighting not considered yet; bid being \$112,000; Buechner & Orth, architects, St. Paul.

**Wis., Shawano**—Regling Bros., have mason contract for C. F. Mehlberg, building and Fred Werbelow, carpenter work.

## RESIDENCES

*Notes arranged alphabetically by States.*

**Iowa**—Following will build residences: Hampton—Frank Arumbuster. Davenport—J. J. Smith, 2-story frame, \$4,000; F. T. Kuhn, 2-story frame, \$3,200; Estherville—C. Harcourt, modern. Davenport—John Westerhoff, 2-story frame, \$2,600; E. C. Cole, 2-story frame, \$4,000; S. Quick, 1½-story, frame, \$1,800.

**Minnesota**—Slayton—Agnes Lane. Darwin—J. E. Nelson. Luverne—P. A. Arnette, \$8,000. Caledonia—Herman Becker. Adams—John Lacher, modern. Walker—Norman Theis, modern, \$3,500. Hopkins—E. L. Hemphill and Wm. Nelson, modern. Wabasha—Dr. D. S. Fleischauer, modern, 2-story frame. Springfield—J. J. Hanna, modern, electric lights. Mapleton—B. F. McGregor, modern, \$5,000.

**Montana**—Following will build residences: Giendive, M. E. church parsonage. Twin Bridges, Chris. Stoker, modern; Glasgow, John Mickelson. Choteau, James Heighton, modern. Outlook, Arthur Ueland, bungalow.

**Mont., Dodson**—B. F. Stevens will build a 5-room bungalow; contract to Gragg Bros., builders; cost \$2,000, modern; D. R. Waddell will build a 9-room residence, Gragg Bros., builders; modern, \$3,500 to \$4,000.

**Nebraska**—Following will build residences: Winslow—H. P. Weitkamp, modern bungalow. Wakefield—Oscar Borg; Gust Johnson, contractor, plumbing and heating to Chas. Schultz. Arabia—Geo. Hornby, Sr., modern. Spaulding—Mrs. Anna Trotter. Ponca—O. I. Newton, modern. Platte Center—A. M. Bennett, Henry Siebler. Norfolk—Judge Kelly, modern. North Loup—Edward Johnson. North Platte—John Tucker, modern bungalow. Maskell—C. G. Severson, modern. Lyons—W. J. Stone, modern. Kearney—Contractor Crossley, modern bungalow, \$3,000, for Mrs. Fred Eickmeier. Kearney—E. Strain, modern bungalow. Hastings—Roy Turpit, modern. Hemingford—Brady Fenner, 2-story, modern. Battle Creek—M. E. church, parsonage. Benson—F. S. Trullinger. Blair—Fred Krogh, modern bungalow. Bloomfield—Wm. Wallenstein, brick, modern. Auburn—John Connor, modern.

**Wisconsin**—Following will build residences: Delavan—Mrs. Fred Waters. Sun Prairie—J. W. Chase, modern. Friendship—Wm. Hillyer, modern. Madison—C. H. Allyn, 2-story, modern, \$6,000. Lancaster—Henry C. Bryan, Harry Barnett. Fond du Lac—P. F. Bouley & Bros. Co., duplex flat, hollow block and cement stucco, architect, J. E. Hennen.

**Wisconsin**—Orfordville, Ben Renli, modern. St. Croix, Earl Smith, modern. Fond du Lac, A. A. Pilon, modern. Baraboo, Henry Simons, modern.



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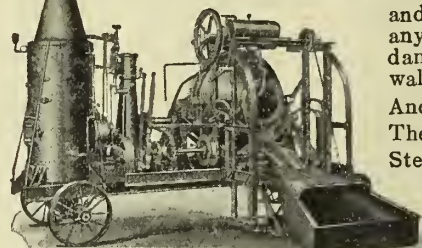
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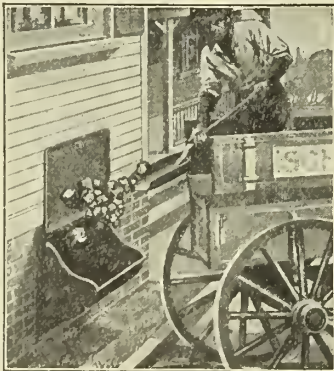
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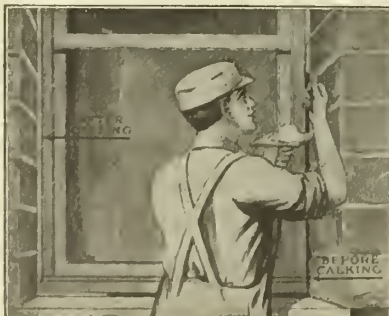
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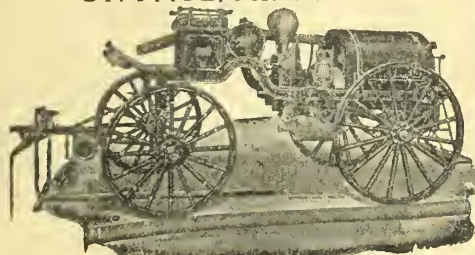
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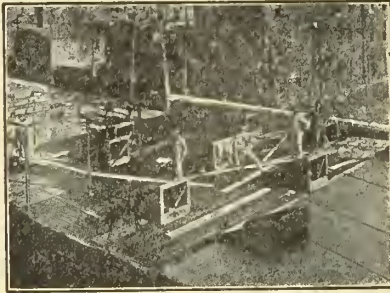
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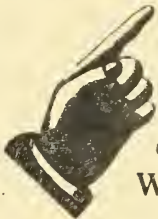
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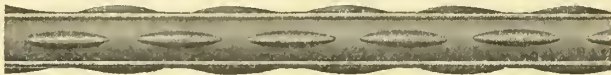
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A Weekly Journal of Construction, Engineering and Architectural News Founded by Harold C. Chapin

Volume XLVII.

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Number 25

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### OFFICES.

Minneapolis, Minn.—912 Lumber Exchange.  
Tel. N. W. Main 3902.  
St. Paul, Minn.—404 Scandinavian-American Bank Building. Tel. Cedar 1683.

### CORRESPONDENCE.

You are invited to send news and comments along lines of your business to Minneapolis office not later than Thursday.

### SUBSCRIPTIONS.

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Daily Advance Construction Reports, \$5.00 a month, \$50.00 a year, in advance.

### ADVERTISEMENTS.

For less than three pages in a year, \$25.00 a page. One page weekly, 52 pages a year, \$22.50 per page. Half page weekly, \$52.65 per month. Quarter page weekly, \$26.34 per month. Eighth page weekly, \$13.65 per month. New advertisements received up to Thursday noon the week of issue.

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### ARCHITECTURAL MODELING.

K. F. Lott & Co., Mpls. and St. Paul, Minn.

### ARCHITECTS' SUPPLIES.

Minneapolis Blue Prtg. Co., Mpls., Minn.

### ASBESTOS AND MAGNESIA PRODUCTS.

H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

Krieger-Jamar Co., Duluth, Minn.

### ARTESIAN WELLS.

J. F. McCarthy, Minneapolis, Minn.

S. Swenson Artesian Well Co., Minneapolis, Minn.

### BANKS.

Northwestern National Bk., Mpls., Minn.

### BANK AND STORE FIXTURES.

Flour City Ornamental Iron Works, Minneapolis, Minn.

A. Moorman & Co., St. Paul, Minn.

Northwestern Fixture & Cabinet Co., Minneapolis, Minn.

### BOILERS.

Andrews Heating Co., Minneapolis, Minn.

Associate Mfrs. Supply Co., Mpls., Minn.

Central Supply Co., Minneapolis, Minn.

Crane & Ordway Co., St. Paul, Minn.

Hasey Heating Co., Minneapolis, Minn.

McDonnell Boiler & Iron Works, Des Moines, Iowa

Shorthill Steel & Iron Works, Des Moines

Star Boiler Works, Clinton, Iowa

### BONDS-SURETY.

Hood & Penney Co., Minneapolis, Minn.

Wm. B. Joyce & Co., Mpls.-St. Paul, Minn.

Fidelity & Deposit Co., Mpls.-St. Paul, Minn.

### BRASS GOODS.

Central Supply Co., Minneapolis, Minn.

National Mfg. & Supply Co., Mpls., Minn.

### BRICK AND TILE.

American Brick & Tile Co., Mason City, Ia.

Arnegard, Ole., Hillsboro, N. D.

Barber Asphalt Paving Co., Des Moines, Ia.

Belt Line Brick Co., Minneapolis, Minn.

Boukind-Carlson Brick Co., Crookston, Minn.

Chaska Brick & Tile Co., St. Paul, Minn.

Crookston Brk. & Tile Co., Crookston, Minn.

Dickinson Brick Co., Dickinson, N. D.

Flint Brick Co., Des Moines, Ia.

Hebron Fire & Pressed Brick Co., Hebron, N. D.

Hydraulic Press Brk. Co., Minneapolis, Minn.

Johnson, Jackson & Corning Co., Minneapolis and St. Paul, Minn.

Mason City Brick & Tile Co., Mason City, Ia.

National Fireproofing Co., Minneapolis, Minn., and Chicago, Ill.

Northwestern Fireproofing Co., Mpls., Minn.

A. C. Ochs Brick & Tile Co., Springfield, Minn.

Red River Valley Brick Corporation, Grand Forks, N. D.

Shakopee Cement Lime Co., St. Paul, Minn.

Sioux City Brick & Tile Works, Sioux City, Ia.

Standard Salt & Cement Co., Duluth, Minn.

St. Paul Lime & Cement Co., St. Paul, Minn.

Twin City Brick Co., St. Paul-Mpls., Minn.

### BRIDGES.

American Bridge Co., Minneapolis, Minn.

Clinton Bridge Works, Clinton, Ia.

Corrugated Bar Co., St. Paul, Minn.

Crown Iron Works Co., Minneapolis, Minn.

Minneapolis Steel & Mach. Co., Mpls., Minn.

N. W. Concrete Steel Co., Minneapolis, Minn.

St. Paul Foundry Co., St. Paul, Minn.

Shorthill Steel & Iron Co., Des Moines, Ia.

### BUILDING MATERIAL.

Barber Asphalt Paving Co., Des Moines, Ia.

Baxter Sash & Door Co., Duluth, Minn.

N. B. Cagley & Co., Minneapolis, Minn.

Carr-Cullen Co., Minneapolis, Minn.

Dunlop-Moore Co., Duluth, Minn.

H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

K. F. Lott & Co., Mpls. and St. Paul, Minn.

Landers-Morrison-Christensen Co., Minneapolis, Minn.

Osgood & Blodgett Mfg. Co., St. Paul, Minn.

Shakopee Cement Lime Co., St. Paul, Minn.

The Northwestern Lime Co., St. Paul, Minn.

Standard Salt & Cement Co., Duluth, Minn.

### BUILDERS' SPECIALTIES.

Dunlop, Moore Co., Duluth, Minn.

Palne & Nixon Co., Duluth, Minn.

Standard Salt & Cement Co., Duluth, Minn.

Thomson-Williams Co., Duluth, Minn.

Waterloo Register Co., Waterloo, Ia.

### CALKING PASTE.

Minnesota Weatherproof Calking & Glazing Co., Minneapolis, Minn.

### CEMENT.

Atlas Portland Cement Co., New York, N. Y., Chicago, Ill., and Minneapolis, Minn.

## The Buyer's Guide and Classified Directory of Advertisers

Carney's Cement Works, Mankato, Minn.  
Fowler & Pay, Mpls. and Mankato, Minn.  
Landers-Morrison-Christensen Co., Minneapolis, Minn.  
N. W. Lime Co., Mpls. and St. Paul, Minn.  
Shakopee Cement Lime Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Speakes Lime & Cement Co., Superior, Wis.  
St. Paul Lime & Cement Co., St. Paul, Minn.

### CELLS, STEEL.

Avery Steel & Iron Co., Minneapolis, Minn.  
Crown Iron Works Co., Minneapolis, Minn.  
Diebold Safe & Lock Co., St. Paul, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.

### CEILINGS, STEEL.

Canton Steel Ceiling Co., Minneapolis, Minn.

R. S. Wishart & Co., Minneapolis, Minn.

### CEMENT FILLER.

National Products Co., Cleveland, O.

### COAL CHUTES.

Crown Iron Works Co., Minneapolis, Minn.  
Enterprise Iron Works, Albert Lea, Minn.  
Gardner Hardware Co., Minneapolis, Minn.  
Majestic Furnace & Fdy. Co., Mpls., Minn.  
Northern Insulating Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Waterloo Register Co., Waterloo, Ia.

### COLD STORAGE PLANTS.

Chas. A. Berger, Minneapolis, Minn.

H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

### COLUMN CLAMPS.

O. F. Symons & Co., Minneapolis, Minn.

### CONCRETE CONSTRUCTION.

Corrugated Bar Co., St. Paul, Minn.

C. A. P. Turner, Minneapolis, Minn.

### CONCRETE MACHINERY.

Atlas Engineering Co., Milwaukee, Wis.

Nels Erickson, Minneapolis, Minn.

Eureka Machine Co., Lansing, Mich.

G. E. Ingersoll & Co., St. Paul, Minn.

Koehring Machine Co., Minneapolis, Minn., and Milwaukee, Wis.

Standard Salt & Cement Co., Duluth, Minn.

Jaeger Machine Co., Columbus, Ohio

Raymer Hardware Co., St. Paul, Minn.

Lansing Co., Lansing, Mich.

Northwestern Steel & Iron Wks., Eau Claire, Wis.

Waterloo Cement Machinery Corp., Waterloo, Iowa

### CONCRETE REINFORCING BARS.

Inland Steel Co., St. Paul, Minn.

Corrugated Bar Co., St. Paul, Minn.

N. W. Concrete Steel Co., Minneapolis, Minn.

Minneapolis Steel & Mach. Co., Mpls., Minn.

Shorthill Steel & Iron Works, Des Moines

### CORNICES.

Griffin & Boehme, St. Paul, Minn.

F. V. Haverland, Minneapolis, Minn.

Minnesota Roofing & Cornice Works, St. Paul, Minn.

R. S. Wishart & Co., Minneapolis, Minn.

St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.

Berger Mfg. Co., Canton, Ohio

### CORRUGATED IRON, ETC.

Corrugated Bar Co., St. Paul, Minn.

### CONCRETE REINFORCING.

Inland Steel Co., St. Paul, Minn.

N. W. Concrete Steel Co., Minneapolis, Minn.

### CONTRACTORS.

N. B. Cagley & Co., Minneapolis, Minn.

### CONTRACTORS' SUPPLIES AND MACHINERY.

Decker Hardware Co., St. Paul, Minn.

O. F. Symons & Co., Minneapolis, Minn.

### CULVERTS.

Victor H. Leeb, Fargo, N. D.

Shorthill Steel & Iron Works, Des Moines

Biesanz Stone Co., Winona, Minn.

Klauser Mfg. Co., Dubuque, Ia.

Minneapolis Steel & Mach. Co., Mpls., Minn.

### CRUSHED STONE.

Fowler & Pay, Mankato, Minn.

Kettle River Co., Minneapolis, Minn.

Klauser Mfg. Co., Dubuque, Ia.

Mantorville Stone Co., Mantorville, Minn.

New Ulm Stone Co., New Ulm, Minn.

Standard Salt & Cement Co., Duluth, Minn.

Widell Co., Mankato, Minn.

### CREOSOTING.

Republle Creosoting Co., A. E. Larkln, Minneapolis, Minn.

### DEADENING MATERIAL.

H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

Standard Salt & Cement Co., Duluth, Minn.

Union Fibre Co., Winona, Minn.

Northern Insulating Co., St. Paul

### DECORATIONS.

Odin J. Oyen, La Crosse, Wis.

### DITCHING MACHINES.

Dix Machine Co., Stillwater, Minn.

### DREDGES.

Bay City Dredge Works, Bay City, Mich.

## RATES

For three lines in directory, giving name, address and goods handled, \$25 for 1 year, 52 times.

### SAMPLE AD

Great Northern Brick Company  
Pressed Brick and Drain Tile  
Minneapolis, Minn.

### DITCHING MACHINES.

Bay City Dredge Works, Bay City, Mich.

### ELECTRICAL ENGINEERING.

Minneapolis Electric Equipment Co., Minneapolis, Minn.

Northern Electrical Co., Minneapolis, Minn.

Beck Electric Constr. Co., Minneapolis

### ELECTRIC MOTORS AND SUPPLIES.

H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

Minneapolis Electric Equipment Co., Minneapolis, Minn.

Sterling Electric Co., Minneapolis, Minn.

### ELECTRIC SPECIALTIES.

Minneapolis Electric Equipment Co., Minneapolis, Minn.

### ELEVATORS AND ENCLOSURES.

Gust Lagerquist, Minneapolis, Minn.

Lee & Hoff Mfg. Co., St. Paul, Minn.

### ELEVATOR CABS.

N. W. Fixture & Cabinet Co., Mpls., Minn.

### ENGINEERS.

Oscar Claussen Engineering Co., St. Paul, Minn.

Charles L. Pillsbury, Minneapolis, Minn.

L. P. Wolff, St. Paul, Minn.

M. B. Stone, Minneapolis, Minn.

W. P. Cowles, Minneapolis, Minn.

Power Engineering Co., Minneapolis, Minn.

### EXCAVATORS.

Bay City Dredge Works, Bay City, Mich.

### FIRE ESCAPES.

Crown Iron Works Co., Minneapolis

Des Moines Structural Steel Works, Des Moines, Ia.

Davenport Mach. & Fdy. Co., Davenport, Ia.

Minneapolis Steel & Mach. Co., Mpls., Minn.

Shorthill Steel & Iron Works, Des Moines

### FIREPROOF DOORS.

Thorp Fireproof Door Co., Minneapolis, Minn.

R. S. Wishart & Co., Minneapolis, Minn.

### FLUE LINING.

Northwestern Lime Co., St. Paul, Minn.

Standard Salt & Cement Co., Duluth, Minn.

St. Paul Lime & Cement Co., St. Paul, Minn.

### FIRE PROTECTION APPARATUS.

Waterous Engine Works Co., St. Paul, Minn.

H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

Minneapolis, Minn., and Milwaukee, Wis.

Minneapolis, Minn.

Selden Roofing & Manufacturing Co., Minneapolis, Minn.

R. S. Wishart & Co., Minneapolis, Minn.

### FLOORING.

American Torgomont Flooring Co., Minneapolis and (Midway) St. Paul, Minn.

Fama Stonewood Co., St. Paul, Minn.

H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

K. F. Lott & Co., Mpls. and St. Paul, Minn.

Osgood & Blodgett Mfg. Co., St. Paul, Minn.

Ranson, Rirtram W., Minneapolis, Minn.

I. Stephenson Co., Wells, Mich.

Thomson-Williams Co., Duluth, Minn.

### FURRING.

Corrugated Bar Co., St. Paul, Minn.

### GAS AND ELECTRICAL FIXTURES.

Herber Chandelier Co., Minneapolis, Minn.

Mpls. Electric Equipment Co., Mpls., Minn.

Minneapolis Gas Fixture Co., Mpls., Minn.

Sterling Electric Co., Minneapolis, Minn.

### GLASS.

American Luxfer Prism Co., Chicago, Ill.

Minnesota Art Glass Co., St. Paul, Minn.

Pittsburgh Plate Glass Co., Minneapolis and St. Paul, Minn.

Minnesota Manufacturers' Association, North St. Paul, Minn.

### GRAVITY CARRIER.

Minnesota Manufacturers' Association, North St. Paul, Minn.

### HARDWARE TRIMMINGS.

Decker Hardware Co., St. Paul, Minn.

Gardner Hardware Co., Minneapolis, Minn.

Raymer Hardware Co., St. Paul, Minn.

The Lane Co., Minneapolis

Waterous Engine Co., St. Paul, Minn.

Warner Hardware Co., Minneapolis, Minn.

### HEAT REGULATORS.



## NOTE

For street address of firms mentioned here, consult their advertisements, which can readily be found by referring to the alphabetical list on page three.

### INSULATING MATERIAL.

H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
Union Fibre Co.....Winona, Minn.  
Northern Insulating Co.....St. Paul

### INSURANCE.

Fidelity & Deposit Co.....  
..Minneapolis and St. Paul, Minn.  
Fred L. Gray Co.....Minneapolis, Minn.  
Hood & Penney Co.....Minneapolis, Minn.  
W. B. Joyce Co., Mpls. and St. Paul, Minn.  
Minneapolis Insurance Agcy....Mpls., Minn.

### IRON AND STEEL WORK.

Avery Steel & Iron Co.....Minneapolis, Minn.  
Clinton Bridge Works.....Clinton, Ia.  
Crown Iron Works.....Minneapolis, Minn.  
Davenport Machine & Foundry Co.....  
..Davenport, Ia.  
Des Moines Structural Steel Works.....  
..Des Moines, Ia.  
Inland Steel Co.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
N. W. Concrete Steel Co., Minneapolis, Minn.  
Oberg & Stamer.....Minneapolis, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.  
Shorthill Steel & Iron Works.....Des Moines  
St. Paul Foundry Co.....St. Paul, Minn.  
E. J. Voggenthaler Co.....Dubuque, Ia.  
Youngstown Iron & Steel Co.....  
..Minneapolis, Minn.

### JOIST HANGERS.

Avery Steel & Iron Co.....Minneapolis, Minn.  
Crown Iron Works Co.....Minneapolis  
Davenport Machine & Foundry Co.....  
..Davenport, Ia.  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
Northwestern Concrete Steel Co.....  
Shorthill Steel & Iron Works.....Des Moines

### LIME.

Fowler & Pay.....Mpls. and Mankato, Minn.  
Landers-Morrison-Christenson Co.....  
..Minneapolis, Minn.  
Gust Lillyblad.....Red Wing, Minn.  
Shakopee Cement Lime Manufacturing Co.....  
..St. Paul, Minn.  
Speakes Lime & Cement Co., Superior, Wis.  
St. Paul Lime & Cement Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
The Northwestern Lime Co., St. Paul, Minn.

### MANTELS—GRATES.

Drake Marble & Tile Co.....  
..Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
N. W. Marble & Tile Co., Minneapolis, Minn.  
Twin City Tile & Marble Co., Mpls., Minn.

### MARBLE, TILING, MOSAIC.

Drake Marble & Tile Co.....  
..Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
N. W. Marble & Tile Co., Minneapolis, Minn.  
Thomson-Williams Co.....Duluth, Minn.  
Twin City Tile & Marble Co., Mpls., Minn.  
Des Moines Marble & Mantel Co.....  
..Des Moines, Iowa

### METAL SHINGLES.

Milwaukee Corrugating Co., Milwaukee, Wis.

### METAL AND WIRE LATH.

Corrugated Bar Co.....St. Paul, Minn.  
Ranson, Birtram W.....Minneapolis, Minn.  
Johnson, Jackson & Corning Co.....  
..Minneapolis and St. Paul, Minn.  
Northwestern Lime Co.....St. Paul, Minn.  
Shorthill Steel & Iron Works.....Des Moines  
St. Paul Lime & Cement Co., St. Paul, Minn.  
Thomson-Williams Co.....Duluth, Minn.

### MILLWORK.

Baxter Sash & Door Co.....Duluth, Minn.  
Osgood-Blodgett Mfg. Co.....St. Paul, Minn.

### MUNICIPAL CASTINGS.

Davenport Mach. & Fdy. Co., Davenport, Ia.

### OFFICE FURNITURE.

Farnham Printing & Sta. Co., Mpls., Minn.

### ORNAMENTAL IRON AND WIRE.

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Crown Iron Works Co.....Minneapolis  
Davenport Machine & Foundry Co.....  
..Davenport, Ia.  
Demeules Bros.....Minneapolis, Minn.  
Flour City Ornamental Iron Works.....  
..Minneapolis, Minn.  
Midway Ornamental Iron Works.....  
..St. Paul, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
Shorthill Steel & Iron Works.....Des Moines  
St. Paul Foundry Co.....St. Paul, Minn.

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Ricketson Mineral Paint Works.....  
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H. W. Johns-Manville Co.....  
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Barrett Mfg. Co.....New York, N. Y.

### PICTURE MACHINES.

Northern Theatre Supply Co., Mpls., Minn.

### PIPE AND BOILER COVERING.

H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.

### PIPE—CAST IRON.

American Cast Iron Pipe Co., Minneapolis

### PLASTER—WALL.

H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
Plymouth Gypsum Co., Fort Dodge, Ia.  
Shakopee Cement Lime Co., St. Paul, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

### PLASTERING—ORNAMENTAL.

Brioschi-Minuti Co.....St. Paul, Minn.

### PLASTIC ORNAMENTS.

Brioschi-Minuti Co.....St. Paul, Minn.  
K. F. Lott & Co., Mpls. and St. Paul, Minn.

### PRINTING.

Farnham Printing Co., Minneapolis, Minn.

### PRISMS.

American Luxfer Prism Co., Chicago, Ill.  
Crown Iron Works Co., Minneapolis

### PLUMBING AND HEATING JOBBERS.

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Central Supply Co., Minneapolis, Minn.  
National Mfg. & Supply Co., Mpls., Minn.

### TRENCH PUMP

C. H. & E. Mfg. Co., Milwaukee, Wis.

### RADIATORS.

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Central Supply Co., Minneapolis, Minn.

### REVOLVING DOORS.

Van Kannel Revolving Door Co.,  
..St. Paul, Minn.

### ROAD MACHINERY.

Galion Iron Works.....Minneapolis, Minn.

### ROOFING GRAVEL AND ASPHALT.

Griffin & Boehme.....St. Paul, Minn.  
H. W. Johns-Manville Co.....  
..Minneapolis, Minn., and Milwaukee, Wis.  
Krieger-Jamar Co., Duluth, Minn.  
Minnesota Roofing & Cornice Works.....  
..St. Paul, Minn.  
Northwestern Lime Co., St. Paul, Minn.  
Scribner-Libby Co., St. Paul, Minn.  
Selden Roofing & Manufacturing Co.,  
..Minneapolis, Minn.  
Thomson-Williams Co., Duluth, Minn.  
R. S. Wishart & Co., Minneapolis, Minn.

### ROOFING—METAL.

Badger Steel Roofing & Corrugating Co.,  
..La Crosse, Wis.  
Duluth Corrugating & Roofing Co.,  
..Duluth, Minn.  
Gardner Hardware Co., Minneapolis, Minn.  
La Crosse Steel Roofing & Corrugating Co.,  
St. Paul Roofing, Cornice & Ornamental  
Co., St. Paul, Minn.  
R. S. Wishart & Co., Minneapolis, Minn.  
Berger Mfg. Co., Canton, Ohio

### ROOFING MATERIAL.

Barrett Mfg. Co., New York, N. Y.  
Corrugated Bar Co., St. Paul, Minn.  
John Leslie Paper Co., Minneapolis, Minn.  
H. W. Johns-Manville Co.,  
..Minneapolis, Minn., and Milwaukee, Wis.  
McClellan Paper Co., Minneapolis, Minn.

### ROOFING AND SIDING—IRON AND STEEL.

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Inland Steel Co., St. Paul, Minn.

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Iowa Sewer Pipe & Tile Co., Des Moines, Ia.  
Northwestern Lime Co., St. Paul, Minn.  
Plymouth Clay Products Co., Fort Dodge, Ia.

## REMEMBER

Announcements on this page are read by architects, contractors, and the building trade generally, all over the Northwest and produce excellent results.

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Standard Salt & Cement Co., Duluth, Minn.

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Kettle River Co., Minneapolis, Minn.  
Duluth Cut Stone Co., Duluth, Minn.  
Mantorville Stone Co., Mantorville, Minn.  
New Ulm Stone Co., New Ulm, Minn.  
Pioneer Granite Co., St. Cloud, Minn.  
Sauk Rapids Granite Co.,  
..Sauk Rapids, Minn.  
Wm. Penn Stone Co., Minneapolis, Minn.  
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STRUCTURAL SECTIONS AND SHEETS.  
Inland Steel Co., St. Paul, Minn.

### TANKS—STEEL.

American Bridge Co., Minneapolis, Minn.  
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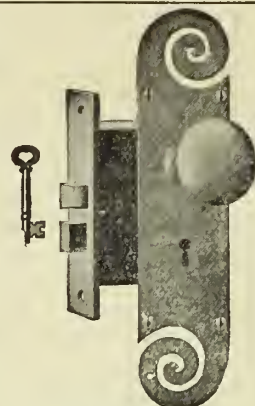
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# The IMPROVEMENT BULLETIN

OFFICIAL ORGAN OF THE MINNESOTA STATE ASSOCIATION OF BUILDERS EXCHANGES

VOLUME XLVII.

SATURDAY, MAY 23, 1914

NUMBER 25

## EDITORIAL

O. L. COLBURN, Editor

### PIECE-WORKER NOT AN INDEPENDENT CONTRACTOR.

Judge Bester, at Duluth, decided the Bashko case in favor of the employe and definitely construed the Compensation Act of Minnesota to apply. He gave Bashko \$1,000, at \$10 a week for 100 weeks, from the Virginia & Rainey Lake Co., for the loss of an eye while at work. Through the courtesy of Abbott, MacPherran, Lewis & Gilbert, attorneys for the defendant, we are able to present the court's order. It follows:

Stanley Bashko, plaintiff-employe, vs. Virginia & Rainey Lake Co., a corporation, defendant-employer.

The above matter came on for hearing before the Court under Chapter 467 of the General Laws of Minnesota for 1913, Charles E. Adams appearing for the plaintiff-employe and Abbott, MacPherran, Lewis & Gilbert for the defendant-employer. After hearing the evidence adduced by the parties, and considering their briefs, the Court makes the following findings of fact and conclusions of law:

#### FINDINGS OF FACT.

1. That plaintiff-employe, at the time he was injured, on Dec. 29, 1913, was employed in doing for the defendant-employer what is commonly known as "piece work," which method of employment was a system used merely to provide a method of fixing the plaintiff-employe's wages.

2. That on Dec. 29, 1913, while so in the employ of defendant-employer, plaintiff-employe sustained a personal injury resulting in the loss of one of his eyes.

3. That the daily wages of said plaintiff-employe, at the date of said injury, was three dollars and fifty cents.

#### CONCLUSIONS OF LAW.

1. That plaintiff-employe is entitled to judgment against defendant-employer for the sum of one thousand dollars, payable at the rate of ten dollars per week for a period of one hundred weeks, together with the costs and disbursements of this proceeding.

Let judgment be entered accordingly. (Stay of 5 days).

Dated April 27, 1914, by the Court.

MEMO: Plaintiff went to defendant's logging camp in the ordinary way and asked for a job. He was put to work on defendant's land, cutting defendant's timber. He boarded in defendant's camp. He used defendant's tools with some sort of understanding as to payment for use or breakage of same. The foreman told him where to work and what to do. No term of service was agreed on and no definite quantity of timber was to be cut. So far one cannot say whether he was a "monthly man" or a "piece worker." When he wanted some money, instead of asking for so many days' wages, he asked for a count of the ties and poles and posts which he had cut. Instead of the foreman counting the number of days and issuing a time check accordingly, he counted the number of ties and poles and posts and issued a time check accordingly. In either case, the foreman deducted the board bill and the hospital fee and the "van" account. Plaintiff was not told in detail how he should do his work, but he was probably told as much about it as the monthly men were about their work. He was called a "piece worker." He had the right to begin work and quit work each day when he pleased. But he and the defendant both profited from his industry if he worked longer each day than the monthly men, and both lost by his idleness if he loafed in camp, although it affected him in greater degree. If he loafed in camp too much, the defendant would have and would exercise the right to discharge him. No one can reasonably say he was an independent contractor, or that he was not an employe. He

undoubtedly was what is, in the common acceptance of the term in these parts, known as a "piece worker." The effect of his employment as such clearly was merely a method of fixing his compensation. Even if some of the characteristics of his particular employment were different or absent, the result would be the same. No one hereabouts employs men by the day or month to make ties, poles or posts. The penalties following inspection of such products are too expensive to permit men to make them on any other basis than by the piece subject to inspection.

Like consideration compel the same conclusion in employments other than that of getting out timber products. Many manufacturing industries find it more advantageous both to employe and employer to fix the compensation on a "piece work" basis. The same result should be reached by a court from a consideration of the purpose and intent of the framers of the Compensation Act. If it is a good law when the wage is fixed on a time basis, it ought to be a good law when the wage is fixed on a piece basis. The industry gets the benefit of the workman's product alike in either case. The industry, therefore, should carry the cost of taking care of those maimed or killed in doing its work.

Decisions have been cited under other compensation acts in other jurisdictions. They are not important. The Minnesota Act carries its own definitions, either expressly or impliedly, sufficiently to cover this case and others like it. The act is now on trial. Nothing in the way of judicial construction or legislation should be allowed to hamper the accomplishment of its beneficent purposes or bring its administration into disrepute.

The case was appealed.

### BUILDING LIMIT LAW IS OPPOSED.

Some men go to Europe to see the beautiful cities, then discourse frequently and eloquently about them when telling friends, fellow citizens and neighbors about the charm of those cities during the time spent at home between trips abroad. It is possible that among these citizens are some who oppose any limit to the height of buildings in Minneapolis. Do these gentlemen note the architectural harmony along the streets of Paris, then come home to the city where they make their money and insist that it shall not have a chance to be famous for its looks? Profit at home, as real estate owners, and pleasure abroad, as seekers of the fine recreation, which includes the graceful old world cities, made so by such regulations as building-limit laws, make them inconsistent. They seem to forget the larger view of what a city should be, though they saw it in nearly every capital of Europe. They do not feel the community spirit, or artistic impulse. The objectors to the building limit law seem to want no limit but the sky. This is the old, untrammelled American spirit in business. It has made a mess into a mess, in New York, as E. M. Bassett, of the New York Building Height commission, told the business men, capitalists and architects at the Civic and Commerce association meeting for the purpose last week.

Mr. Bassett, as an expert, was brought here by the Civic and Commerce association to reveal the truth of the toadstool decorations of the metropolis. He spoke plainly. "The skyscraper" he said, "not only is bad for itself, but for the community. New York is an object lesson of the evil effects of unrestricted building." A leading New York architect, who was in Minneapolis recently said virtually the same thing. Neither, in the printed interviews, dwelt enough on the big point—bad for the community. The ordinance now before the Welfare committee of the City Council is excellent in this respect. It evinces the right community spirit and is at the same time scientific, business-like. A 140-foot height is a fair concession to the owner and architects who would have no limit. An architect who has spent more than two years studying the subject, and especially the problem with regard to Minneapolis, asserts that the pending measure is solidly based on careful investigation, professional knowledge and experience, right of business, and the proper community spirit.



# How to Make Estimates—Suggestions for Saving Time and Money

There is no uniformity among engineers and contractors in making estimates of cost for construction work, says a writer in *The Contractor*. Each man follows, to a great extent, his own ideas, feeling that he is using the best method. Thus each has his own system, which is one reason why prices vary so much in many proposals made on the same job by different contractors. The factor of personal judgment will always show in making up estimates; but it now enters into this work much more than it should, as estimating should be made, and is susceptible of being made, a more exact science.

As evidence of this, the writer has seen several men following the same method make up estimates of cost that agreed very closely, within a few per cent, this difference being due to the personal judgment as to details, while these results could not have been obtained by widely different methods.

Low prices should not be made by close estimating, for this means a possible loss of money; but low prices should be made by liberal estimating and by improved methods of doing work and the installation of the best types of labor-saving machines.

Evidence of this is shown in another article in this issue on concrete sidewalks. Eight men by hand methods did so much work in a day, while the same number by improved methods could have done more work in the same time, while three men with the aid of a small concrete mixer did more work in one day than the eight men did. It is plain to be seen that the contractor on the last job, even with a poor estimating system, could have named lower prices for his work than the other contractor.

The great desideratum of any estimating system is accuracy. To land work by public bidding, prices must be low; but there must be a reasonable profit in them, and to insure this they must be accurate. This cannot be obtained by loose systems of estimating, but it can be done by a well thought-out system, one that takes into consideration every factor, all the conditions, and leaves nothing to be guessed at, nor to be covered by the so-called item of contingencies.

Furthermore, each unit of work must be broken up into the smallest details possible, so that the estimate deals with small rather than large units. The value of this can readily be understood by an illustration. If the price on one unit is one dollar, and an error is made of ten percent, the work may be done at a loss; but if this unit is broken up into ten or more items, then, if a mistake is made on any item, the total error will hardly amount to more than a cent, which would not materially affect the work.

These general remarks should be elucidated, and given more in detail. First, though, it is necessary to take up the subject that leads to scientific estimating, and that is cost-keeping. During the past five years cost-keeping has been discussed pro and con, but even those who have argued against it make some pretense at keeping costs. Estimating is dependent upon cost-keeping. Without cost-keeping estimating, unless based on cost figures kept by others, will be but little more than guessing.

If cost-keeping is done in lump sums then the estimating based upon such costs must be in lump sums. This shows the necessity of keeping detailed cost; and even then, if the cost records are to be of value they must be assembled and analyzed. If enough information is given with costs, any such records can be analyzed, even printed cost data; but one great defect of most costs, both printed and unprinted, is that not enough details are given to admit of analysis. Cost data that cannot be analyzed have little value save for being used as checks on estimates, and even for this purpose their value is questionable.

Cost data should be kept in great detail for two excellent reasons. One is to locate wastes and excessive costs and by comparisons know them, and thus eliminate them promptly. The other is to have such details of costs that estimates can be made up in the same detail. The two should be bound together, and the two systems should be based one upon the other. This is not a new theory, but unfortunately few contractors, and engineers see the connection between the two systems, consequently most cost-keeping systems are not devised to give much assistance in estimating.

## PLANS AT BUILDERS' EXCHANGE, MINNEAPOLIS.

Plans on file May 18, Builders' Exchange, Minneapolis: ladies' gymnasium, university of Minnesota, bids open May 18; same, mechanical equipment, May 18; store, Campbell, Minn., May 20; high school addition, Oconto Falls, Wis., May 18; school, Bathgate, S. D., May 18; church, Watertown, S. D., May 18; store, Woonsocket, S. D., May 19; armory, New Ulm, Minn., May 20; hotel, Fergus Falls, Minn., heating and ventilating, May 20; school, Sioux Falls, S. D., May 21; hospital, Rosebud, N. D., May 21; hospital, Standing Rock, May 21; hospital, Cheyenne, May 21; school, Le Sueur Center, heating, ventilating and plumbing, May 22; Wm. Penn school, Minneapolis, plumbing, May 22; church, Plato, Minn., May 22; school, Crosby, N. D., May 25; school, Maddock, N. D., May 25; church, Edgeley, N. D., May 25; rewiring state normal school, Mayville, N. D., May 29; high school, New England, N. D., May 30; court house, Ashland, Wis., June 1; postoffice, Lake City, Minn., June 10; school, Sherburn, Minn., heating and ventilating, May 29; town hall, Weyburn, Sask., May 23; church, Devils Lake, N. D.; school, Ely, Minn., June 1; sewage plant, Faribault, Minn., June 1; school, Foreston, Minn., June 1; store Windom, Minn., June 2; brick building, Carthage, S. D.; masonic temple, Howard, S. D.; banks, Geraldine, Winnifred and Roy, Mont., Watertown, S. D., hospital, heating and plumbing.

Bids in: bank, Plentywood, Mont.; school, Dahlen, N. D.; St. Anthony Park, church; city hospital, Menomonie, Wis.; church, Crookston, Minn.; children's hospital, Phalen Park, Minn.; same, mechanical equipment; manual training building, Eveleth, Minn.; school, Lidgerwood, N. D.

Contracts awarded: church addition, Fairfax, Minn.; J. M. Heidermann, Fairfax; bank, Shakopee, Minn., August Woehling, Shakopee; hotel, Sioux Falls, S. D., J. B. Nelson, Mankato; school, Toledo, Iowa, C. W. Ennis, Toledo; same, heating and plumbing, Nevada Heating & Plumbing Co.; same, electric, Davis & Evans, Toledo.

## THE YESBUT.

There are plenty of Yesbut men in this country—men who greet a new plan, new idea, or a new proposition, with a sickly smile, with a frigid hand-shake of doubt, fear and hesitation. Ever since the Stone Age, they have been on the tail end of the procession of progress. There are plenty of contractors who refuse to listen, who refuse to try-it-out, who refuse to consider better ways and better means—plenty of contractors who are doing their work as the work was done ten years ago; and this is a libel on progress, on genius—a mighty expensive bit of stubbornness, indifference, or whatever-you-want-to-call-it.

The contractor who can meet competition today, is the try-it-out man, is the forty-horsepower, resourceful man, whose enthusiasm is 110 in the shade.

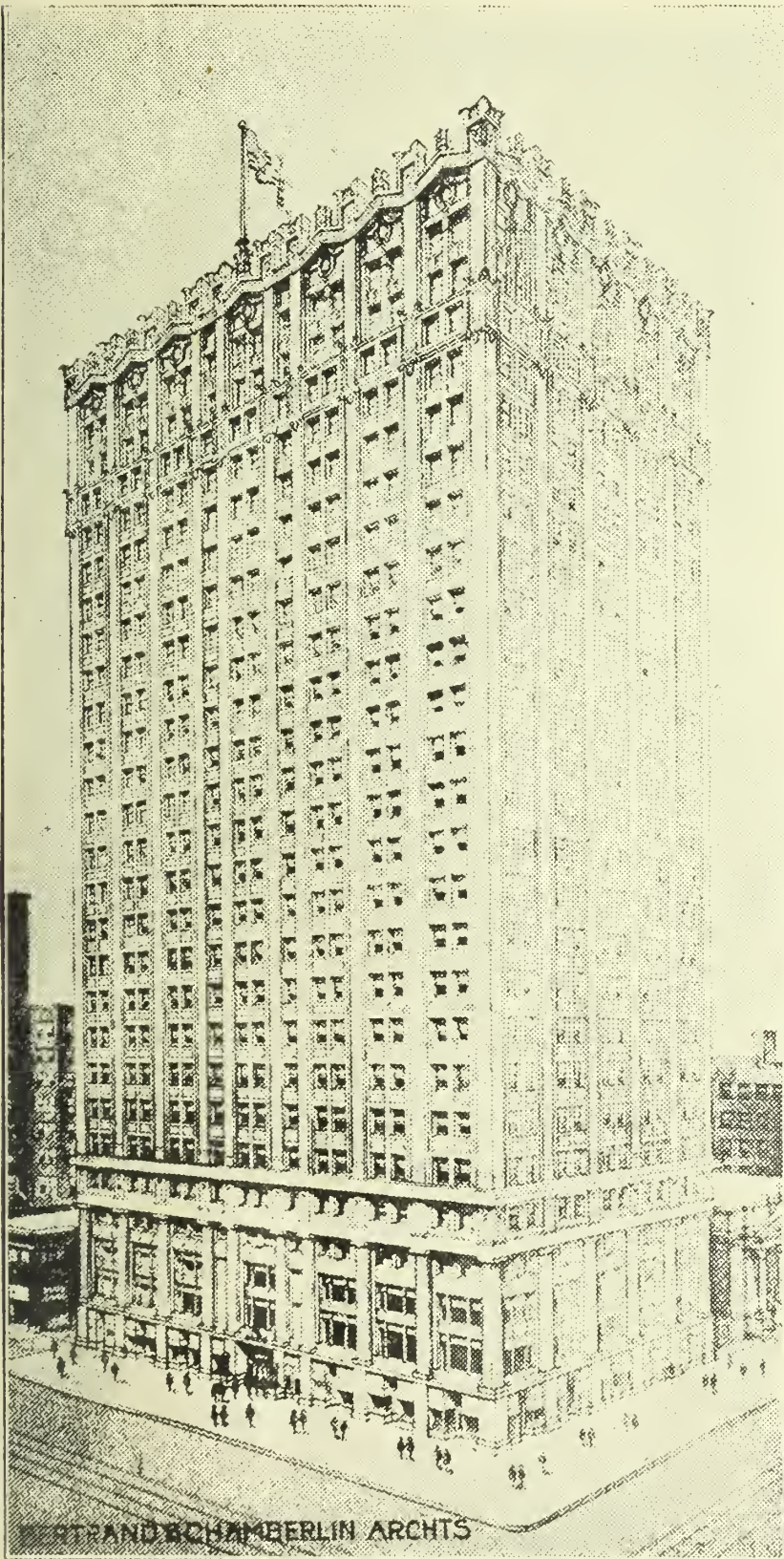
The contractor that is ahead today is the man that will listen when you talk of some machine that will save time and labor. The try-it-out man has the gumption, the grit, and the go-ahead material, all of which are necessary ingredients in the recipe for success.—The Mixer.

## 96,000 BRICKS LAID IN A SINGLE DAY.

In the laying of the brick floor of the completed portion of the quay wall at the Balboa terminals, a squad of five West Indian masons, serving in relays, three men working at the same time, with two resting in reserve, laid in one day of ten working hours, a total of 96,000 bricks. The entire gang, including the white foreman, Mr. Park T. Andrew, and the men engaged in handling the bricks from the cars, mixing and carrying mortar, etc., consisted of 67 men.

The masons laid the paving between the inner rail of the track along the face of the wharf and the inner coping, a width of 50 feet, over a distance of over 400 feet covering an area of approximately 20,000 square feet. Counting five men in the squad, each laid at the rate of 1,920 bricks per hour, or 32 per minute; three men being actually at work, the bricks were laid at the rate of 3,200 per man per hour, or 53.33 by each man each minute. The masons were paid 13 cents per hour.—Canal Record.





ARCHITECT'S DRAWING OF 25-STORY OFFICE BUILDING TO BE ERECTED AT 2D AV. S. AND 4TH ST.

#### THE TWENTY-FIVE STORY OFFICE BUILDING FOR MINNEAPOLIS.

Plans for a 25-story building on the Bigelow property, 2d av. S. and 4th st., Minneapolis, now occupied by a drug store, were submitted to the city building department in anticipation of the passage of an ordinance limiting the height of buildings. The skyscraper will be the highest in the northwest.

The plans were outlined by W. L. Brackett of the Standard Building Co., which will finance the erection, and A. B. Chamberlain of the firm of Bertrand & Chamberlain, architects, N. W., Bank building. Both men said they believed the ordinance had been aimed at this building.

Mr. Chamberlain and Mr. Brackett declared that the plans were the work of nine months of figuring, and represented the most profitable building height for the property. More than a score of plans of buildings varying from 12 to 25 stories had been made before one was chosen.

The building is said to be largely financed, outside capital principally being interested. It will cost \$1,500,000. Its erection will be started in the fall.

The officers and directors of the Standard Building Co. are Geo. A. Mowery, of the Twin City Fire Insurance Co., president; C. F. Ross, vice president and treasurer; W. L. Brackett, secretary and manager; Wm. E. C. Ross, Blue Earth, Minn.; A. B. Chamberlain, Robert C. Rorison, M. K. Simmons, directors.

"For nearly a year," said Mr. Brackett, "serious thought has been given to the proper improvement of this property. We believe Minneapolis has reached a period in its growth and development and that its future is so firmly established that we are justified in the formation of a corporation to erect a building that will reflect much credit to the city and favorably advertise Minneapolis to the world as one of the progressive, wide-awake cities of this continent.

"The building will contain 235,000 square feet of rentable floor area. It will cover the entire property to the height of two stories. The first floor will be divided into small shops, the second floor will be a banking floor. Extending two stories in height above the building will be L shaped in construction. The wings of the L will be 61 feet in width, the court will be 38x96.

#### EIGHT HIGH-SPEED ELEVATORS.

"This arrangement will make every office in the building an outside office with plenty of light and air.

"The building will contain eight high speed electric traction passenger elevators.

"The interior finish will be metal trimmed throughout with tile and marble corridors, and the entrance lobby will be imposing and attractive, in keeping with the dignity of the building. The exterior will be of granite terra cotta."

It is estimated that the population of the building will be about 2,000. The number of tenants will be about 250.

#### NEW INCORPORATIONS.

N. D., GWINNER—Gwinner Farmers' Elevator Co., \$15,000; W. M. Johnson.  
WIS., REEDSBURG—Reedsburg Motor Truck Co., \$125,000; E. N. McNab.  
WIS., MARSHALL—Excelsior Creamery Co., \$3,000; E. H. Jewett.  
... MINN., DULUTH—Homestead Farmers' Co-operative Co., Martin Martinson, president.

S. D., CENTERVILLE—Centerville Telephone Co., capital, \$50,000; Jas. S. Thompson, P. J. Bauman and others.

WIS., LA CROSSE—La Crosse Steel Construction Co., \$12,000; Geo. W. Trayer.

IOWA, MARBLE ROCK—Farmers' Elevator Co., capital \$25,000.

IOWA, DAVENPORT—East Davenport Machine Co., Wm. R. Waters, president.



# PERSONAL AND GENERAL NEWS.

## Doings of the Northwest this Week Boiled Down for Busy Readers

### PERSONAL AND GENERAL.

The Hawkeye Supply Co. is being organized at Mason City, Iowa, with a capital stock of \$75,000, to deal in electrical equipment, plumbing, heating, mill and factory supplies and to buy and sell property. Among those interested are; C. B. Sherman, G. B. Pray and C. H. McNider.

J. C. Thompson, R. B. Thompson and J. C. Claussen, of Brainerd, Minn., have associated themselves under the firm name of Thompson Bros. & Claussen to continue the business of Vaughn & Claussen of cement contracting and manufacturing cement products.

The C. A. P. Turner "mushroom system" of reinforced concrete will be installed in the new building of the H. W. Johns-Manville Co., now in course of erection, corner of Gravier and Magazine sts., New Orleans, La.

The Cream City Manufacturing Co., of Milwaukee, Wis., has a new cement called "fix-it," which, it is claimed, can be applied on any surface under any weather conditions.

The Duluth Corrugating & Roofing Co. has the contract for the roofing and siding on the new \$50,000 plant of the American Carbolite Co., at Duluth, Minn.

B. T. Meinecke, contractor, Bake, Mont., has more contracts in hand than usual, this spring.

William Crowley has engaged in general contracting at Wibaux, Mont., with office at the Heaton Lumber Co.

A meeting of the directors of the Midland Continental R. R. was held at Jamestown, N. D., and officers elected: W. T. Van Brunt, New Jersey, president; C. F. Hatley, Chicago, vice president; A. C. MacIllvain, secretary; W. C. Phillips, Chicago, treasurer; W. K. Bull, Racine, Wis., chairman of board of directors. C. S. Buck, Jamestown, was retained as general attorney and also elected director and O. J. Seiler was elected a director. A. C. Maxwell remains as general manager. Secretary MacIllvain also represents the road as attorney at Chicago. Mr. Van Brunt who succeeds H. S. Duncombe is a practical railroad man, civil engineer and is at present constructing a line in Oklahoma. F. K. Bull is reported as the largest stockholder in the company.

G. M. Kerney has established a plant at Aitkin, Minn., for making concrete blocks and will engage in concrete construction.

While the appropriation bill has not passed yet, it is believed the Canadian Dominion government will spend upwards of \$500,000 at Banff this year. Besides road work there will be the new baths at the Cave and Basin, under contract to Worswick, of Winnipeg, at about \$100,000. A 20-inch water main will also be laid from the Stoney Squaw Mt. reservoir. A high-level concrete bridge is planned across the Bow river at Main st.

The Metal Shingle & Siding Co. of Canada, with headquarters at Preston, Ont., will erect a large warehouse in Regina within the near future. The price and size have not been definitely announced as yet, but it is stated that fifty hands will be employed in the factory in addition to a corps of travelers, at the commencement. W. R. McKenzie will be the Regina manager.

"Mental" furniture wanted.—We note in a Tyndall, S. D. notice to contractors that bids will be taken till June 10, for mental furniture by the county board, which is building a court house.

It is announced that the Chicago mixer which was formerly sold by the Chicago Concrete Machinery Co. has been taken over by the T. L. Smith Co., 3112 Hadley st., Milwaukee, Wis., and from now on will form a part of the latter company's regular line. The machine has been entirely redesigned and will be known as the Smith-Chicago mixer.

Nickel & Nickel, butchers at Kamiah, Idaho, are having their premises equipped with a direct expansion cold storage plant. The installation is being made by the Armstrong Machinery Co., Spokane, who are installing a 1-ton Siberian ammonia compressor.

Burrell Engineering & Construction Co., Chicago, has recently opened its seventh office, and this time has selected Spokane as headquarters for the Greater Northwest. The company confines its activities entirely to flour mills and grain elevators. C. R. Schoin is now the manager in charge of the Spokane office, at 708-709 Hutton building.

INTERNATIONAL IRRIGATION CONGRESS—The 21st annual meeting of the congress will be held in Calgary, Oct.

5-9. The headquarters is at 3 Board of Trade building, Calgary, Alta.

E. S. Macgowan of the Universal Portland Cement Co., Minneapolis office, gave another of his highly successful illustrated talks on concrete roads and pavement, last week, at Pipestone, Minn. The audience filled the hall and displayed unusual interest.

Webster City, Iowa, Clay Products Co. has reopened the large brick and tile plant of the Webster City Brick & Tile Co.; Henry Teget, drainage contractor, is in the new company.

T. F. McDonnell and A. A. Shippy, Waterloo, Iowa, contractors, have formed a partnership. Both are men of large experience in all kinds of building. Mr. McDonnell has been contracting at Waterloo eight years. His partner has been connected with the firm of Shippy & Burke, contractors, for ten years.

W. J. Lemon, bridge builder, 1184 Laurel av., St. Paul, who has been in Mexico recently, rebuilding railroad bridges, says American soldiers better stay out and let the rebels do the fighting.

An amicable settlement of the dispute between inside electrical workers and contractors of St. Paul was effected recently. A 3-year agreement was signed, calling for improved working conditions, and a wage scale of \$4 a day the first year, \$4.25 the second and \$4.50 the third; former scale \$3.75.

The industrial commission, Madison, Wis., has made its award in the case of Fred La Roy of Wrightstown, against G. H. Fleck of Green Bay, in favor of Fleck. LeRoy made a claim for damages to injury which he claimed he received while at work for Contractor Fleck at Wrightstown. The commission maintained that the claim was made too late. Herbert J. Smith represented the defendant and Martin, Martin & Martin of Green Bay, represented the plaintiff.

Iron mines owned by the State of Minnesota, which last year produced 2,875,000 tons, will yield 4,000,000 this year.

G. E. Ackerman, engineer and contractor of dam construction, Willow River Falls, Wis., is recovering from an injury received from a blast.

### ARCHITECTS AND ENGINEERS.

Ralph Budd, recently chief engineer of the Great Northern Ry., has been again appointed assistant to the president of the company, and A. H. Hogeland, recently consulting engineer and formerly chief engineer, has been reappointed chief engineer. Mr. Budd was formerly chief engineer of the Panama R. R., and later was chief engineer of the Spokane, Portland & Seattle Ry. until January, 1913, when he came east to be assistant to the president of the Great Northern.

I. C. Brower, former division engineer, of the Chicago & Alton R. R., at Bloomington, Ill., has been appointed assistant engineer of Chicago, St. Paul, Minneapolis & Omaha Ry., with headquarters at St. Paul, Minn.

At the 27th annual meeting held at Great Falls, Mont., April 9-11, the following officers were elected by the Montana Society of Engineers: president, Reno H. Sales; vice presidents, Martin H. Gerry and Arthur W. Richter; secretary, Clinton H. Moore, Butte, Mont.

Harold C. Rauch, Neilsville, Wis., is a new member of the Wisconsin chapter, A. I. A.; recommended by A. C. Eschweiler, Milwaukee, president.

Senior engineering students in the university of Minnesota visited the plant of the Kettle River Co. at Sandstone, as guests of the company. With L. B. Moses, sales manager for the Kettle River Co., as chief guide, the party was taken through the Kettle River quarries, shown the methods by which 1,000 pounds of powder is shot off at once, how the huge pieces of rock, so hard that it cannot be milled by the ordinary machinery, are sawed into building blocks and curbing slabs shaped into paving sizes and crushed for use as concrete. The students watched the workmen perform the various operations, from drilling holes in rock for the insertion of powder blasts to shaping blocks by hand for paving, and in all of which operations fifteen carloads are prepared for shipment daily, ten months of the year. From the quarries the students were taken to the creosoting plants of the same company where H. M. Newton, manager of this department of the work, explained the methods used. From the university faculty were Prof Wm. H. Kavanaugh, C. F.





# HOTEL RADISSON

## MINNEAPOLIS, MINNESOTA

**T**HE most complete hotel from the standpoint of architectural and engineering science.

The tallest, reinforced concrete building in the Twin Cities.

The only hotel in the Twin Cities that has complete high pressure steam generating plant, refrigeration plant, vacuum cleaning plant, air compressors and deep well pump, thermostatic heat control system, ventilating plant with air washers and thermostatic heat control on heating coils, complete laundry plant, electric maids' signal system, seven electric traction type, high

speed elevators, incinerator plant, master and secondary clock systems, automatic fire alarm system, circulating refrigerated drinking water system in every guest room, construction cost 43 cents per cubic foot.

Has the most popular and up to date dining room in the Twin Cities.

### CHATEAU ROOM

(A tribute to the French)

### VIKING ROOM

(A tribute to the Scandinavian)

### TECO INN

(A tribute to the American)

The Radisson Hotel is essentially a man's hotel, aiming to cater to man's daily needs. Popular prices prevail in all departments.

This hotel is the only modern hotel in the Twin Cities under the direct management and supervision of its owners.

# Light the Fuse to the Builders' Boom

1914 Promises to be the Greatest Building Year Yet!

Are you having your Architect Figure on  
Insulating your Home with

*It defies Heat, Cold  
and Noise*

## Flaxlinum

TRADE MARK REGISTERED

*Saves 30% on Your  
Fuel Bill*

Flaxlinum will keep your home delightfully warm in Winter and cool in Summer.  
*It is Cheaper to Build a Warm House than to Heat a Cold One*

**How much Coal did you burn last year?**

**How much money can you save by insulating your home?**

A home insulated with Flaxlinum, that otherwise would have burned 6 tons, will burn only 4.2—or it will save

\$17.10	1st Year
37.33	2nd Year
57.67	3rd Year
79.21	4th Year
101.11	5th Year

If, in the past, you burned 10 tons, a home insulated with Flaxlinum will only need 7 tons, or in other words, will save:

\$30.21	1st Year
62.19	2nd Year
96.72	3rd Year
132.09	4th Year
170.19	5th Year

## Northern Insulating Company

1400 University Ave., St. Paul, Minn.



**TEAR  
OFF**

Northern  
Insulating Co.  
1400 University Ave.  
St. Paul, Minn.

Gentlemen: Please  
Send me information about

Flaxlinum for \_\_\_\_\_

Date: \_\_\_\_\_



Shoop and F. R. McMillan. H. M. Grennell, credit manager for the company, was in the party.

S. C. Giles has been appointed city engineer of Crookston to succeed E. J. Boyer. Mr. Giles formerly was with the Wisconsin Central.

The Gargoyle Club considered by-laws at its meeting in the Studio building, St. Paul, Wednesday night and appointed a committee to act with the artists league on house rules.

Cass Gilbert, architect of the Capitol, St. Paul, Woolworth building, New York City, and other famous structures, was in the Twin Cities en route east this week. He visited the Capitol. Mr. Gilbert formerly lived in St. Paul.

H. J. Rasmussen, engineer, formerly with the Soo road, has accepted a position with the state highway commission at Houston, Minn.

W. F. Barstow, engineer, has succeeded Mr. Carpenter as state highway engineer at Stillwater, Minn., and Mr. Carpenter has returned to government work in the Philippines.

The Engineers' Club of Minneapolis has entertained Monday evening at its regular meeting at the university, with an illustrated talk on steel construction by the National Tube Co.

The regular monthly meeting of the Minnesota Section of the American Institute of Electrical Engineers, will be held in the Ryan hotel, St. Paul, Minn., Monday evening, May 25. Martin H. Clapp, superintendent of telegraph, Northern Pacific railway, will deliver a paper entitled "A Comparison of the Telephone with the Telegraph as a Means of Communication in Steam Railroad Operation." Prof. W. T. Ryan will present "Some Central Station and High Tension Transmission Statistics." Election of officers will take place, and the new local membership pins will be distributed. Fred G. Dustin, secretary.

#### PERSONAL AND GENERAL.

Leon C. Warner of the Warner Hardware Co., who has been south all winter and spring, has returned. He is at his desk again greatly improved in health.

National Tube Co. has just completed a series of local

engagements for its twenty-three reels of moving pictures showing the process of making National pipe. They were exhibited before the Minneapolis Plumbers' and Jobbers' Club, the Engineers' Club and the St. Paul Jobbers' Club.

The death of Morton Fenstad, St. Paul, general contractor, was a shock to the building fraternity. It was not generally known that he was ill. He was only forty-six and was gaining a place among the successful men in the business by hard work and good business methods. He was a victim of overwork which made an operation seem necessary. This was followed by another at a short interval, before he was strong enough to withstand it. He was a Mason, and prominent in Norwegian circles. A widow and two sons survive.

#### ORDERS FOR WEATHERPROOF CALKING.

Minnesota Weatherproof Calking & Glazing Co., calking contractors, 210 Plymouth av., Minneapolis, report contracts recently taken for calking school of mines building, University of Minnesota, new Tourtellotte Memorial Home, Minneapolis, new dormitory, St. Catherine's college, St. Paul; Fidelity building, Duluth; Watkin's Medical building, Winona; Marsh Place building, and First National Bank, Waterloo; Security Bank, Cedar Rapids; court house, Clinton; Brown apartments, Des Moines, and state institution for feeble-minded at Glenwood, Iowa; Omaha National Bank building, Omaha, Neb.; State Savings & Trust Bank building and Brunson office building, Columbus; Newark Trust Co. building, Newark; high school, Frayzeysburg; state armories at Bowling Green and at Marysville, and 12-story Ohio building, Toledo, Ohio.

#### TERRA COTTA CONTRACTS AWARDED.

Numerous contracts have been awarded recently to the Northwestern Terra Cotta Co., K. F. Lott & Co., agents, 101 E. 8th st., St. Paul, including that of the First National-Soo Ry. 19-story office building, Minneapolis the largest contract of this kind ever given in the Twin Cities; also terra cotta contract for the First National Bank, Glasgow, Mont., Buechner & Orth, architect, St. Paul; Leigland, Kleppe & Co., contractors, Great Falls; Sacred Heart academy, Grand Forks; George P. Stauduhar, architect, Rock Island; Polson Construction Co., contractors, Chicago.

#### BRICK AND TILE NEWS.

A. C. Ochs Co., Springfield, Minn., is behind on orders and Heron Lake Brick & Tile Co. may start on Springfield clay for face brick.

The Hydraulic Press Brick Co. offered prizes for the best plans for a \$7,500 Hy-tex brick home. 381 plans were submitted. I. P. Lord, of Boston was awarded first prize, R. M. Powers of Boston second, while the third prize went to J. P. Murphy and J. R. Colean, of Des Moines, Iowa, and fourth prize to L. H. Lyon, New York.

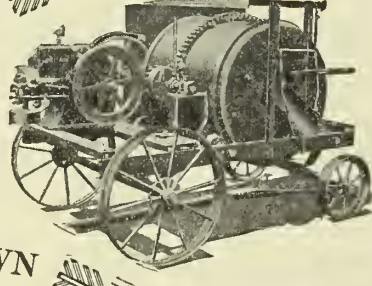
Vertical fibre brick may be introduced for paving at Iowa City, Iowa. J. W. Miller was in the city representing the Western Paving & Contracting Co., Kansas City.

C. W. Seig will operate the brick yard this year at Musselshell, Mont.

The annual output of Minneapolis brick and tile plants, Minneapolis, East Side, is valued at \$200,000.

A. L. McCray, Zumbrota, Minn., was appointed trustee of Barr Clay Products Co., bond \$20,000. He applied for license to sell the plant near Wanamingo.

1914  
MODELS  
NOW READY



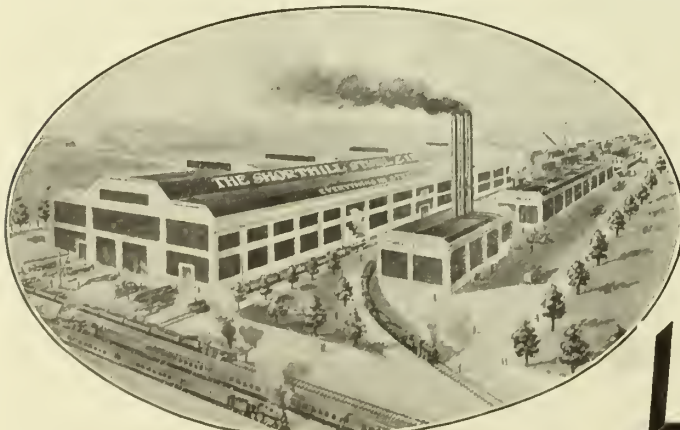
**THE LANSING BRONCHO**

**QUALITY WAY UP**  
**PRICE WAY DOWN**

Come In and look them over.  
Always carried in stock.

**LANSING-CO.**  
330 No. First St., Mpls.

## MOST COMPLETE STEEL PLANT IN IOWA—



Right at home. Eastern orders mean long shipments with high freight rates and delayed deliveries.

Buy your steel in the mid-west. Get it quickly and at low cost.

Steel bridges and girders, structural steel, trusses, beams, angles, channels and bars, boilers and engine supplies, etc. Cold rolled shafting.

Get our quotations

Everything in steel.

**The Shorthill Company**  
PERRY, IOWA

Sales office S. & L. Building, Des Moines, Iowa.



\*Mather & Burner, architects, McKnight building, have prepared plans for a residence for C. A. Nelson, and E. L. Orndahl, 2907 E. 25th; stucco, 2-story and basement, brick fireplace, hot water heat, modern; owners will build.

\*Mather & Burner, architects, McKnight building, have plans for a residence and garage, 44th and Garfield, for M. E. Smith, 2823 Dupont av. S.; brick first floor, stucco, hot water heat, modern, brick mantel; owner will take figures.

T. P. Giddings, supervisor of music, public school, Minneapolis, is interested in proposed open-air theater at Anoka, Minn.; concrete; address Mr. Giddings, school board, city hall; or Park Board, Anoka.

Bids in May 22, for painting, finishing and decorating Washington school, school board, 407 City Hall; also bids, same date on new floors, stair treads, etc., Wash. school.

Irwin Goldstein, Plymouth building, is constructing a 4-flat for J. N. Johnson, at 4104 S. Bryant, plaster veneer, 35x60, concrete foundation, hot water heat, modern, \$7,000.

Kirby T. Snyder, architect, Plymouth building, issued the plans this week for the Dawson Minnesota Bank; brick, 1-story, tile floors and skylights, owners taking figures.

Harry Pence, Pence Auto Co., 8th and Hennepin, has started public storage garage, 1st av. N. and 9th, 50,00 sq. feet, \$50,000; 3-story, 125x200, to be completed in 60 days.

\*Aug. Strom, 309 7th av. S., is building a frame duplex at 2519 E. 22d; 26x48, hot water heat, modern, \$5,000; Adrian Anderson, builder, 2655 NE. Washington.

E. C. Best & Co., commission merchants, 112 Western, will build a 1-story brick office and warehouse, 50x80, plans ready, start work June 1.

Tile contract on the athletic club, 2d av. S. and 7th, not yet let, specifications changed and new figures secured; all other contracts let.

Garage, cost \$13,000, will be built by the city at 1911 E. 26th st.; brick, 2-story; concrete and steel, permit issued.

Library and museum planned at University to cost \$10,000, by Norwegians of Minnesota; Gov. Eberhart interested.

## ST. PAUL, MINN.

404 Scandinavian American Bank Building.

Phone: N. W. Cedar 1683.

Mail or telephone news not later than Wednesday.

Items marked with asterisks not run in Daily Sheets.

### Building Permits.

Westberg & Rindgren, 414 W. Minnehaha, 1½-story frame dwl., Selby near Aldine; Alf. Tornquist, builder.....	2,500
George C. Ersig, builder, 501 Virginia, 1½-story frame dwl., Sherburne near Snelling.....	2,600
Hugo Hirschman, 2½-story brick veneer and frame and stucco dwl., Summit near Saratoga; Lindstrom & Anderson, builders.....	15,300
H. L. Munday, 1567 Summit av., addition, alterations and repairs to dwl., 1567 Summit near Brimhall; Lindstrom & Anderson, builders.....	16,000
Theo. Hamm Brewing Co. and Geo. Benz & Sons, alterations and repairs, Robert st. Carling's downtown restaurant; F. J. Romer Construction Co., builders.....	15,000
National Amusement Co., Minneapolis and St. Paul, 1-story frame motor dome, University—H. T. Hoen, builder.....	25,000
A. Wharton, 3-story brick store, alterations and repairs, 359 Robert near 4th; J. H. Nickel, builder.....	5,000
John Venne, 1-story, brick, concrete and steel garage, University and Rice; St. Paul Building Co., builders.....	7,800
V. J. Hawkins, 127 E. Isabel, 2-story, brick veneer and stucco, Summit near Prior; Nick Steinmetz, builder.....	4,600
John M. Bradford, 132 Cambridge, addition and alterations, 2-story, frame, 132 Cambridge st.; John Olson, builder.....	2,000
Sperry Realty Co., 7-story, brick commission house, 11th near Robert; C. H. Froberg, builder.....	75,000
Phil McQuillan, 468 Ashland, 2-story, frame and stucco dwl., Kenwood Parkway near St. Albans; Wm. M. Murphy & Son, builders.....	9,000
C. Wicht, 1½-story frame dwl., Smith near Morton; Rank Brothers, builders.....	2,720
E. G. Walton Agency, 148 Endicott, 2-story, frame dwl., 7th near Vista; E. G. Walton, builders.....	3,000
Christ Elsenpeter, builder, 1½-story frame dwl., Thomas near Pascal.....	2,400
P. G. Schletty, builder, 194 W. George, 1-story brick dwl., George near Charlton.....	2,500
Inez O. Haggerty, 423 Dewey, 1½-story frame dwl., Ashland near Herschel; F. J. Haggerty, builder.....	2,500
Alex Beck, builder, 631 Sims, 1½-story brick dwl., York near Bradley.....	3,000
H. A. Nelson, builder, 1640 Laurel, 1½-story frame dwl., Moore near Ashland.....	2,600
Louis Strauss, builder, 314 S. Exchange, 2-story frame duplex, Iglehart near Louis.....	4,500
Edmund E. Shafer, 1338 Reaney, 1-story frame dwl., Orange near Earl.....	2,800
Mayer, 831 Hague, 2-story frame dwl., Wakefield near Forest; E. R. Neby, builder.....	3,000
H. K. Groth, 2-story frame dwl., Keston near Doswell; A. Albenson, builder.....	3,000
W. J. Gronewald, builder, 323 Banfil, 2-story brick and veneer dwl., Harrison near Garfield.....	2,000
W. E. Jernegan, builder, 1295 Van Buren, 1½-story frame dwl., Blair near Pascal.....	2,400
Mrs. Mary E. Baldwin, 2133 Carroll, 1-story frame dwl., Selby near Cleveland.....	2,000

John R. Swanystue, 2017 Lincoln, 1-story frame dwl., Lincoln near Cleveland.....	8,000
Mrs. C. L. Mundahl, 2035 Lincoln, 1-story frame dwl., Lincoln near Cleveland; John R. Swanystue, builder.....	8,000
G. W. Stewart, 1½-story frame dwl., Snelling near Fairmont; B. P. Rosenstein, builder.....	4,000
B. P. Rosenstein, builder, 152 S. Lexington, 1-story frame dwl., Selby near Fisk.....	4,000
Matilda Lesen, 1½-story frame dwl., Fairmont near Lexington; B. P. Rosenstein, builder.....	2,200
Modine L. Rosenstein, 1½-story frame dwl. and garage, Fairmont near Oxford; B. P. Rosenstein, builder.....	4,500
A. F. Evenson, 1½-story frame dwl., Grantham near Douswell; O. Levine, builder.....	2,500
D. W. Taylor, builder, 48 E. 4th st., 2-story frame dwl., Lexington near Hague.....	4,500

Buechner & Orth, architects, Shubert building, announce contracts let as follows: Maxwell & Cathcart building, plumbing, H. B. Steiner, St. Paul; heating, Hankee & Eha; electric work, Electric Construction Co.; Grand Forks Bank building, for N. W. Trust Co., general, Ingemann & Co., St. Paul, electric, E. A. Braseth, Grand Forks; First National Bank, Glasgow, Mont., electrical work, Electric Construction Co., plumbing and heating, Elmer Johnson; Palace theater, Minneapolis, marble and tile, to N. W. Marble & Tile Co., Minneapolis, heating and plumbing, H. Kelly & Co., Minneapolis, ornamental iron, Flour City Iron Works Co., Minneapolis; Grand Forks court house, furniture, Wollaefer Manufacturing Co., Milwaukee, fixtures, David J. Brown, Chicago; decoration, W. H. Andrews, Clinton, Iowa.

Frank Tewes, architect, Endicott building, has prepared plans for a large modern residence with garage, at Goodrich and St. Albans, for Chas. Weschcke, Ablerika Co., 358 Pleasant av.; stucco, bungalow style, 53x28, hot water heat, plumbing, wiring, fireplace, tile bath, canvas covered walls, beam ceiling, paneled wainscoting, china closet, kitchen cabinet, buffet, composition floors by American Torgoment Flooring Co., St. Paul, (Anchorrold), all tile bath room, Solarium, flower boxes, flower urns, tile porch floors, dipped shingles; H. N. Seby, general contractor, 2042 Dayton av.; all subs in general, including, plumbing, heating and wiring; quarter-awed oak finish.

Alban & Lockhart, architect, Chamber of Commerce are preparing plans for a shelter house, Hoffman av. playground; brick, 28x69, faced brick and plastered interior, wood floors, asphalt shingles, heating, plumbing, wiring, metal tile roof, ridges; showers lavatories, etc., hot air heat; bids taken by park board until Friday, May 29; last contract to be let under present administration, before commission government.

Contract awarded to H. M. Elmer, Hague av., for residence, Henry Jacke, Milton and Laurel; plans by C. A. Pear, architect, Pittsburgh building; modern, frame, \$6,300; hot water heat, tile bath and vestibule, vacuum cleaner, wood mantle, arches, sideboard, wiring in general contract, heating and plumbing to be let later by architect; Winthrop patent asphalt shingles, Valentine's valstar, specified.

Republic Creosoting Co. was low in bids for \$25,000 paving blocks for Dale st., \$1.24 7-8; Chicago Creosoting Co., \$1.25; Builders Material Co., low on cement at \$1.78, Portland, \$1.38 natural; Barrett Manufacturing Co., offered pitch filler at 72c per 100 pounds; John Baker offered Texas asphalt at \$19.39; Star at \$19.92; Magnolia Petroleum Co. offered Mexican at \$18.60; Cuban, \$22.40.

C. A. Bassford, architect, Gilfillan block, has prepared plans for a 2-story brick double house, Edmund & Virginia, for John Walligosa, 295 Stinson, 34x40, 2 hot water heating plants, modern, \$5,500, owner will let all work; also plans for a 1-story garage, frame, for four machines, for Bert Hanson, at his residence; concrete floor, tar and gravel roof; owner will let all work.

A. L. Karrough, architect, Rosen building, has prepared plans for a store and hotel building in So. St. Paul, for Chas. W. Kroeger, Concord st.; 25x70, 2-story, brick, concrete foundation, plumbing, steam heat, wiring, pitch and gravel roof, copper glass and tile front tile floor, Keene cement wainscot on metal lath, skylight, 3 toilet rooms, birch finish; owner lets all work.

Contract for crippled children's hospital dormitory, Phalen Park, awarded to J. W. Butler & Bro. Co., Scandinavian American Bank building, \$40,486, plumbing and heating, N. J. O'Neil, St. Paul, \$10,610; laundry and machinery, Troy Co., \$2,800, electric work, Grosse-Langford Electric Co., Minneapolis, \$1,640; \$10,000 available for equipment, 100 beds.

O. M. Rognan, architect, 4th and Wabasha, is preparing plans for a modern dwelling, Macalester park, for John Storwick, 26x40, frame, hot water heat, wood mantle; also plans for a 2-story modern dwelling, hot water heat, frame, wood mantle, for L. A. Muessel, 68 W. Congress, owners will let all work.

Contracts awarded by E. J. Donahue, architect, Gilfillan block: Pierz, Minn. heating, J. L. Judge, 4306 Pillsbury av.,





# BERGER'S

Metal Lath      Concrete Reinforcing  
Corner Bead      and Furring Plates

*Write for Catalog.*

## The Berger Manufacturing Company

300-312 Tenth Ave. So.  
Minneapolis, - Minn.

## THE TURNER MUSHROOM SYSTEM

### REINFORCED CONCRETE FLAT SLAB CONSTRUCTION

(Patented)



Interior view of a strictly modern factory building, in the construction of which the Turner Mushroom System of Reinforced Concrete was used,—The Kahn Tailoring factory building at Indianapolis, Indiana.

The recent decision of the Hon. Chas. A. Willard in the U. S. District Court of Minneapolis in the Drum vs Turner concrete patent case sets at rest pretended claims of Mr. Turner's imitators.

All infringers are being rigidly prosecuted, as Mr. Turner has in his employ at the present time five of the best known and most able firms of patent attorneys in the United States

**OWNERS, PROTECT YOUR OWN INTERESTS** by demanding that your flat slab designers furnish an infringement bond of an amount equal to the cost of your building. Demand a bond for a five-year term and make yourselves safe.

### THE MUSHROOM SYSTEM

is the original reinforced concrete flat slab system and is the only legitimate flat slab on the market today.

Designs and Estimates furnished by

**C. A. P. TURNER**

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MINNEAPOLIS :: MINNESOTA  
New York      Chicago      Winnipeg  
Representatives in all principal cities



Minneapolis, \$3,400; plumbing, J. Ranner, Alexandria, Minn.; St. Mary's parochial school, Sleepy Eye, Minn., heating to Albert J. Potts, St. Peter; J. L. Judge bid \$6,750 for heating.

Board of control will get bids within two months on school of Mines, university, \$100,000, biology building, university, \$280,000; farm gymnasium, university, \$90,000; library and class rooms, Normal, Moorhead, \$100,000; girls' dormitory, St. Cloud, \$40,000.

Struchen-Nelson Construction Co., general contractors, Capital Bank building, were awarded contract for the alterations and addition to residence of Geo. Thompson, St. Paul Dispatch, Summit av., \$6,000, millwork to St. Croix Lumber Co.; A. H. Stem, architect, Endicott, building.

R. F. Palmer, architect, 1175 Churchill av., has prepared plans for a duplex, Farmington between Charles and Sherburne, for J. J. Buckley; hot water heat, modern, built-in sideboards; architect taking figures.

Jos. Guertin, contractor, 61 E. 9th, has the contract for alteration in 3-story brick block, E. 3d st., for Henry Hale estate; also for alterations in a 2-story brick block, S. Wabasha for Yoerg Brewing Co.

Grant Smith & Co., 504 Endicott building got the contract for the Hill office building for the N. P., G. N. and First National Bank; structural steel to Carnegie Steel Co. Work will proceed rapidly.

O. M. Rognan, architect, 4th and Wabasha, reports general contract Ellsworth, Wis., creamery, awarded to Chas. Rampher & Son, 703 Bates av.; plumbing, heating out next week for figures.

Bids received at U. S. engineer's office, until 2 p. m., June 9, for two 35 h. p. gasoline marine engines, for tow boat; Chas. L. Potter, Government building, 5th and Wabasha.

A. L. Garlough, architect, Rosen building, has prepared plans for a modern dwelling, frame, hot water heat, S. St. Paul, for Wm. Kleinboehl, 26x30, 1½-story, plans out.

R. F. Palmer, architect, 1175 Churchill av., has prepared plans for a bungalow for F. S. Spencer, Watertown, S. D.; brick and plaster, all modern; owner taking figures.

A. Albinson, contractor, 212 Plymouth building, Minneapolis, is building a 2-story frame residence, 26x48, hot water heat, modern, on Keston near Doswell.

Fire damaged Zion Swedish Lutheran church, LaFond and Aldine, \$3,000; plans for rebuilding under consideration; Rev. John A. Frost, pastor, 420 Dewey av.

Permit issued for residence, Orange and Earl for E. E. Schafer, 1338 Reaney; 1-story frame, 28x36; plans by C. A. Bassford, architect, Gilfillan block.

A brick storehouse is being built for the Dore Redpath Co., on Jackson between 9th and 10th; J. M. Turnbull, contractor, 179 Cayuga; 22x40.

Alden & Harris, architects, Commerce building, will confer this week with city officials of Brainerd, Minn., regarding city hall and lockup.

#### PLANS AT FARGO EXCHANGE.

Plans at Builders' & Traders' Exchange, May 21: school, Ross & Son, architect, brick, 65x66, 2-story, Maddock, N. D., bids close May 25; church, Geo. Fossum, architect, brick, 50x94, Edgeley, N. D., bids close May 25; bank, Hancock Bros., architect, brick, 26x50, 1-story, Hickson, N. D., May 27; school Haxby & Gillespie, architects, brick, 66x52, 2-story, Sidney, Mont., bids close June 2; briquet plant, brick, 41x31, 1-story, Hebron, N. D., bids close June 3; school, Ross & Son, architects, brick, 60x36, 2-story, Petersburg, N. D., bids close June 15; store, Haxby & Gillespie, architects, brick, 50x100, 3-story, Fargo, N. D., bids close soon; school, Haxby & Gillespie, architects, brick, 64x43, 2-story, Vining, Minn., bids close bids; school, Haxby & Gillespie, architects, brick, 106x62, 2-story, New England, N. D., bids close soon.

#### HEAD OF THE LAKES

Office: 206 Manhattan Building. Telephone: Auto 3036.  
Mail or telephone news not later than Wednesday.

Items marked with asterisks not in Daily Sheets.

#### DULUTH.

##### Building Permits.

Rafench Building Commission, frame dwl, 18th av. E. between 7th and 8th sts.	2,500
B. P. Neff, tile and frame dwl., E. 6th st. between 27th and 28th avs.	13,000
C. Chartier, frame club house, Lakewood.	4,000
Mrs. M. Melville, frame dwl., North Side, E. 4th st.	7,000
A. Ruden, frame dwl., North Side, W. 1st st. between 13th and 14th avs.	2,500
C. S. Rogers, frame dwl., South Side, E. Superior st.	3,000
Chas. Anderson, frame dwl. and concrete foundation, North Side, W. 5th st.	2,250
W. A. McKay, addition of one story to hotel, South Side, W. Superior st.	25,000
N. B. Nelson, east side of 7th av. between 10th and 11th sts.	3,000
N. Nyquist, frame dwl., Magellan st. between 46th and 47th	

avs.	2,500
A. Fieldman, brick store building, Central av.	10,000
J. G. Williams, brick garage, E. 2d st. between 26th and 27th avs.	3,000
Suburban Home Building Co., four frame dwellings, Minneapolis av.	8,800
J. Gonska, alterations and repairs, E. 5th st. between 6th and 7th av.	2,000
Hunter's Park Land Co., frame dwl., Kenilworth av.	6,500

\*The city council will agree to vacating the portion of Elm av. which is submerged in order to make extensive improvements at that point. The Northwestern Fuel Co. is planning the construction of a large dock on that part of the harbor, the dock will cost \$500,000 and the expense of acquiring the property will be about \$150,000. The dock will cover the avenue, which is about 75 feet wide, but above it a slip 150 feet wide will be dredged out.

Work started at 7th av., E. and 2d st. on a \$33,000 apartment house for Ralph Marotta; Holstead & Sullivan, architects. The building will be 3½-story, brick and will contain 9 5-room apartments. It will have fireproof staircases and reinforced concrete floors; Jacobson Bros. were awarded the general contract, including the plumbing and steam heating.

Bray & Nystrom, architects, received bids on the proposed \$50,000 technical high school for Eveleth, Minn., the past week; 2-story, brick, of mill construction; the same architects will send out specifications for an office building for the Miners' National Bank at Eveleth, to cost about \$20,000, within a few days.

\*Repairs to the surface of the 6t hav. viaduct will be made at once; John Wilson, city engineer, has estimated that the cost of the improvement will be \$3,800. This includes cost of removing the upper part of the structure, laying a 4-inch planking and building a new walk and guard rails.

New Duluth Commercial club has asked Superior Commercial club to join in a petition to congress for the widening and deepening of the St. Louis river so as to provide a channel in which lake boats of ordinary draft can be operated.

\*For the three weeks ending May 16 the total number of permits was 141, amounting to \$508,290, a gain of 15 per cent over the entire month of April, which was the busiest April in the history of Duluth.

County board has agreed to take steps for building first unit of a county hospital, which when completed will cost between \$150,000 and \$200,000.

Kelly & Williams, architects, sent out specifications during the week for bids on the proposed Gowan and Moore schools in the Floodwood district.

\*Contract for a number of corrugated culverts has been let to the Duluth Corrugated Roofing Co.

Kelly & Williams, architects, drawing plans for addition to Central Baptist church, W. Duluth.

Permit has been issued for a \$4,000 building for Mrs. L. G. Nevin at 1309 Hammond av.

#### MILWAUKEE, WIS.

Office: Hathaway Building; Telephone Main 1827.  
Mails news to Minneapolis office not later than Wednesday.

Architect Fitzhugh Scott, 424 Jefferson st., has awarded the following contracts on a residence for Wm. B. Johnson at Shepard av. and Kenwood blvd.: carpenter, J. Debbink Co.; mason, Chas. Gruenewald; cut stone, Andrees Stone & Marble Co.; concrete and cement, Austin Construction Co.; plaster, Math. Freuh; tile, Milwaukee Tile & Mosaic Co.; sheet metal, E. B. Tonnsen; steel, Worden & Allen Co.; painting, Dearsley Bros.; heating, The Mueller Co.; electrical, Knoerr & Fisher; painting, L. F. Evers; art glass, Milwaukee Mirror & Art Glass Co.; vacuum cleaning, The Tuec Co.; weather strips, Willer Manufacturing Co.; garbage incinerator, Kerner Incinerator Co.

The board of school directors, F. M. Harbach, secretary, has awarded the following contracts on the Clarke st. school addition; solid brick, 2-story and basement, 129x180: mason, South Side Construction Co.; carpenter, C. Guetzkow; concrete and cement, F. Hassa; roofing and sheet metal, W. Eslein; heating, C. J. Fox; heat regulator, Johnson Service Co.; plumbing, J. J. O'Connell; electric, Tueler & Gauerke; plaster, W. Luedtke; painting, W. Froederman; hardware, Phillip Gross Hardware Co.; structural steel, C. Hennecke Co.; slate blackboards, S. A. Berkemeyer; cut stone, C. W. Tingley; tile, Wisconsin Mantle & Tile Co.; marble, Breidster Marble Co.

Architects Leiser & Holst, Germania building, have awarded on dwelling for Miss F. Kippenburger, Farwell av.: carpenter, Albert Hoefs; mason, Martin Construction Co.; on duplex for H. Wussow, Jr., Concordia av.: carpenter, Chas. Graack; mason, Emil Clemens; plumbing, Lindemann & Schumann; also same contractors on duplex of Otto Hahn

(Continued on page 25.)



# PROPOSAL ADVERTISING FOR BIDS

## PROFESSIONAL DIRECTORY

### ENGINEERS

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M. Am. Soc. C. E.  
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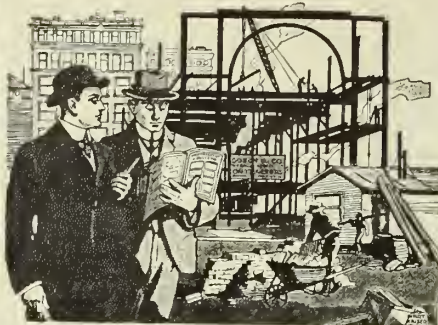
### Dickinson Brick

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Dickinson, N. D.



OFFICIAL ADVERTISEMENTS for proposals will be published in this department on receipt of copy with order from authorized official, building committee, architect or engineer.

RATE FOR NOTICES In this department ment—15c per line each insertion. No discounts allowed. Several insertions are customary to insure full and fair competition.

PRINTED SLIPS are furnished to officials, architects and others interested, for distribution by them, without extra charge.

PROFITABLE INVESTMENT—It has been the experience of those who have used this medium that by investing a few dollars they have saved hundreds.

COPY RECEIVED up to Friday, 10 a. m., will be published in the paper, delivered to subscribers on Saturday, but should reach the publication office, Lumber Exchange, Minneapolis, earlier in the week, when possible.

LATE NOTICES Friday morning can be transmitted by long distance telephone.

### BIDS WANTED.

Public Library Building at Cresco, Iowa.

Sealed bids for constructing a brick and stone Public Library Building at Cresco, Iowa, will be received by C. W. Reed, Chairman Building Committee, Cresco Public Library, up to seven o'clock P. M., June 9, 1914.

Plans and specifications may be obtained from J. H. Howe, architect, Cresco, Iowa. A deposit of \$5.00 to insure return of plans and specifications is required; this deposit will be returned upon the surrender of plans and specifications.

A certified check for two hundred dollars, payable to "Building Committee, Cresco Public Library," must accompany each bid as a guaranty of good faith.

The right is reserved by the Board of Trustees to reject any or all bids and to waive any defects or informalities in any bid.

Dated, Cresco, Iowa, May 18, 1914.

BUILDING COMMITTEE,  
Cresco Public Library.

(Continued on page 19)

## PROFESSIONAL DIRECTORY

### ENGINEERS

OSCAR CLAUSSEN ENGINEERING  
COMPANY

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Engineering Experts to Municipalities.  
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WM. B. JOYCE & CO.

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MINNEAPOLIS

NORTHWESTERN MANAGERS

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Communicate with Us before Arranging your Insurance.



**NOTICE TO CONTRACTORS.****Masonic Building and Store Building at Wausa, Nebraska.**

The undersigned hereby give notice of the sealed proposals for the erection of a Masonic Building and the H. E. Johnson store building, to be erected adjoining each other in Wausa, Nebraska. Bids are to be made separately for each of the buildings, and will be opened by the building committee and H. E. Johnson, on the first day of June, 1914, at 3 P. M. All bids must be in strict accordance with the plans and specifications prepared by J. E. Baggstrom of Wausa, Nebraska.

A certified check for \$250.00 payable to P. H. Peterson, chairman of building committee, must accompany bid for Masonic Building, and check for \$150.00 payable to H. E. Johnson must accompany bid for his building to be forfeited in case the bidder should refuse to enter into contract and furnish a satisfactory bond for the faithful performance of the contract. Plans for each building can be seen at architect or owners and copies may be obtained by a deposit of \$10.00, which sum will be returned when same are returned in good condition.

Bids for Masonic Building will be addressed to P. H. Peterson and for store building to H. E. Johnson, at Wausa, Nebraska.

Both parties reserve the right to reject any or all bids.

P. H. PETERSON.  
H. E. JOHNSON.

**ADVERTISEMENT FOR BIDS.****State Bridge, Shakopee, Minn.**

Sealed bids will be received at the office of the County Auditor of the County of Scott, at the Courthouse in the City of Shakopee, Minn., until 11 o'clock A. M., July 13, 1914, for building State Bridge No. 1277 on State road No. 11 in the Town of Glendale in the County of Scott, State of Minnesota.

The superstructure will be 24-foot span, 20-foot roadway; concrete and gravel floor; on concrete foundations.

Distance from top of floor to bottom of foundations about 13 feet.

(A) Plans and specifications may be seen at the above office, or at the office of the State Highway Commission at St. Paul.

(B) Plans are to be submitted by the respective bidders, which shall comply with the specifications of the State Highway Commission dated 1912.

Each proposal must be accompanied by cash or a certified check for not less than 5 per cent of the amount of the bid, payable to the County Treasurer of said Scott County. All bids must be upon blank forms furnished by the undersigned.

The Board reserves the right to accept or reject any proposal.

A. J. MAYER,  
County Auditor.  
Scott County, Minnesota.

**BIDS WANTED.****Sewer System, Armour, S. D.**

Sealed proposals will be received at the Office of the City Auditor, Armour, South Dakota, up to 8 o'clock p. m., on the 3rd day of June, 1914, for furnishing all tools, labor and material used to construct a complete system of sewerage, in accordance with the plans and specifications on file in the Office of the City Auditor, Armour, South Dakota, and at the Office of the Engineer, Yankton, South Dakota. Such bids, or proposals

shall be made upon printed forms to be furnished by said city auditor and shall be accompanied by a bond with two or more sureties, as provided by Section 1343 of the Political Code of South Dakota, for at least fifty per cent of the amount of the bid. Said bond to be made payable to the City of Armour, South Dakota, to be approved by the City Council and conditioned upon the faithful performance of the contract and as a guaranty that the successful bidder will sign a contract for the work, otherwise said bond to be forfeited to the City as liquidated damages.

The City reserves the right to reject any and all bids.

RUEL E. DANA,  
Mayor.

J. C. PERKINSON,  
City Auditor.

W. L. BRUCE,  
Engineer, Yankton, South Dakota.

**TWO ROOM SCHOOL BUILDING.****Foreston, Minn.**

Sealed bids will be received by the School Board of District No. 11, at Mille Lacs County, Foreston, Minn., until 11:00 A. M., on Monday June 1st, for the erection of a two room school building, and the installation of a heating plant.

Plans and specifications can be seen on and after May 18th in the Builders' Exchanges of both St. Paul and Minneapolis, Minnesota, and the same may be obtained from the Architect, Rolland C. Buckley, St. Cloud, Minn., upon the deposit of fifteen (\$15.00) dollars, which will be refunded to the Contractor when the plans are returned with a bid.

A certified check for 5 per cent (5%) of the amount of the bid, made payable to Mr. C. O. Schwartz the Clerk, must accompany each bid as a guarantee. The same to be returned to the unsuccessful bidders, immediately upon the letting of the Contract. The party to whom is awarded the Contract will be required to furnish a surety bond for the entire amount of their bid.

All bids shall be sealed and addressed to Mr. C. O. Schwartz, Clerk of School Board at Foreston, Minnesota.

The Board reserves the right to reject any or all bids.

By order of School Board,  
C. O. SCHWARTZ, Clerk.

**BIDS WANTED.****Oliver County, N. D.**

The undersigned hereby gives notice that sealed proposals for the following various kinds of road machinery, delivered either at New Salem or Harmon, in Morton county, or at Sanger, Hensler or Fort Clark, in Oliver county, to-wit: Road graders, fresnos, scrapers, road drags, and road plows, prices to include both small and large lots, will be received until the hour of 5 o'clock P. M., of the 23d day of May, 1914.

The parties offering the best bid, and to whom the contract has been awarded, will be required to furnish a satisfactory bond in the sum of \$500.

The right is reserved to reject any or all bids.

a-23-4 FRANK J. V. KIEBERT,  
County Auditor, Oliver County, N. D.

**BIDS FOR MOTOR FIRE TRUCK.**

Sealed bids will be received by the undersigned to be opened before the city council of the city of Bemidji, Minn., at a regular meeting to be held on Monday, May 25, 1914, at 8 o'clock P. M. for one motor fire truck.

Full information as to plans and speci-

fications can be obtained from the undersigned.

The right to reject any or all bids is reserved.

Certified check in the amount of 10 per cent bid, on some bank in Bemidji, required.

GEO. STEIN,  
City Clerk.

**NOTICE FOR BIDS FOR WATERMAIN.****Hopkins, Minn.**

Sealed bids will be received at the Recorder's Office of the Village of West Minneapolis (Hopkins Postoffice) Hennepin County, Minnesota, until 7:30 o'clock p. m., of Tuesday, June the second, 1914, for the laying of an eight (8) inch water main from Seventh Avenue on Excelsior Avenue East—about 1,500 feet.

Also a six (6) inch water main to be laid on Seventh Avenue from Excelsior Avenue north to Second Street North—about 1,200 feet.

Two hydrants are to be placed on each run of pipe. Further information may be obtained from the undersigned village recorder at Hopkins, Minn.

Each proposal must be accompanied by cash or a certified check for not less than five (5) per cent of the amount of the bid, payable to the Village Treasurer, H. F. Moore.

The council reserves the right to reject any and all bids.

E. A. CLOSE,  
Village Recorder.

**NOTICE TO HEATING AND PLUMBING CONTRACTORS.****School House, Village of Sherburn, Minn.**

D. M. Reyolds, Secretary of Independent School District No. 68 of Martin County, Minn., will receive sealed bids until 8 o'clock P. M., on May 29, 1914, for the construction and installation of a Moline Vacuum Vapor Heating and Ventilating Plant for above building.

Also separate bids for the plumbing of said school building.

Plans and specifications can be seen at the Secretary's office in Sherburn, Minn., and at the Builders' Exchange, Minneapolis, Minn.

A certified check of 5 per cent of bid, made payable to Secretary, must accompany each bid.

The right reserved to reject any or all bids.

Bids will be opened at 8 o'clock P. M., at Sherburn, Minn., May 29, 1914.

D. M. REYNOLDS,  
Secretary Board of Education.

**NOTICE TO CONTRACTORS, LETTING OF PLUMBING CONTRACT.****Humboldt, Iowa.**

Notice is hereby given that sealed bids for the installation of a complete system of plumbing in both the high school and grade buildings of the Independent school district of Humboldt, Iowa, will be received at the office of the Secretary J. E. Barker, Humboldt, Iowa, up to 7:00 p. m., May 25, 1914, at which time the board of directors of said district will let the contract for the same to the lowest and best responsible bidder.

Detailed specifications will be on file and ready for examination at the office of the Secretary after April 25, and all bids must be in conformity therewith. The board reserves the right to reject any and all bids.

Work must be begun on or before June 10, 1914, and completed on or before July 30, 1914.

(Signed) J. E. BARKER,  
Secretary.

(Continued on page 20.)



# CONTRACTORS BONDS AND EMPLOYERS LIABILITY INSURANCE

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## PROPOSAL ADVERTISING FOR BIDS

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REPAIRS



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STACKS  
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CLINTON, - - - IOWA.

### BIDS FOR BRICK HIGH SCHOOL.

New England, N. D.

Sealed bids will be received by W. N. Burud, Clerk, New England, N. D., up to the hour of 10 o'clock A. M., May 30, 1914, for the erection of a brick grade High School Building to be erected in the village of New England, Hettinger County, N. D.

All bids must be in strict accordance with plans and specifications prepared by Haxby & Gillespie, Architects, Fargo, N. D., and must be accompanied by a certified check for 5 per cent of bid, made payable to Dr. J. W. Strivling, chairman of the Board, as an evidence that the bidder will enter into contract if awarded the work.

Plans can be seen at the following places after May 15th: Builders' Exchanges, Fargo, N. D.; Bismarck, Minneapolis, St. Paul, and at the office of the Clerk and Architects.

If plans are wanted for personal use they can be had from the Architects for \$5.00 per set; plans to be returned to the Architects on the day of opening bids.

Bids will be taken at the same time and place and under like conditions for the Heating, Plumbing and Wiring of the Building.

The Board reserves the right to reject any or all bids.

By order of the Board.

DR. J. W. STRIBLING, President.

W. N. BURUD, Clerk.

HAXBY & GILLESPIE, Architects,  
Fargo, N. D.

### NOTICE TO CONTRACTORS.

City Hall and Fire Station.

Sealed proposals will be received up to twelve (12) o'clock, noon, of the 10th day of June, 1914, for the labor and mate-

rial necessary for the erection and completion of a two-story, brick City Hall and Fire Station, to be erected in the City of Hutchinson, Minn., and all to be in full accordance with plans and specifications therefor as prepared by C. E. Bell, Architect, 312 Security Bank Bldg., Minneapolis, Minn. Plans on file with F. N. Moore, City Clerk, Hutchinson, Minn., and at the office of the Architect on and after the 22d day of May, 1914. Proposals to be accompanied with a certified check in amount of five (5%) per cent of the bid and made payable to Geo. H. Sivwright, City Treasurer. Proposals must be addressed to F. N. Moore, City Clerk, and plainly marked, "Proposal for City Hall and Fire Station." The owner reserves the right to reject any or all proposals. Heating, Plumbing and Electric Wiring will be let at the same time but under separate contracts; 5 per cent certified check for each.

### PROPOSAL FOR ADDITIONS TO WATER WORKS SYSTEM FOR THE CITY OF ALEXANDRIA, DOUGLAS COUNTY, MINN.

Sealed proposals will be received until 7:30 p. m., Monday, June 1st, at the office of the City Clerk, Mr. C. J. Sundblad, and opened immediately thereafter. The plans and specifications are on file and can be seen at the office of C. J. Sundblad, City Clerk, Alexandria, Douglas County, Minn., and in the office of J. F. Druar, the Oscar Claussen Engineering Co., 312-316 Commercial Building, St. Paul, Minn., or additional copies may be had from the engineer at \$3.50 per set to cover the cost of reproduction of same.

The plans and specifications are the property of the City of Alexandria, Douglas County, Minn., and must be returned at the letting together with the bids or the bids will not be considered.

The work is to consist of Division No. 1, Pump House and Accessories; Division No. 2, approximately 300,000-gallon capacity reinforced concrete reservoir and Accessories, together with Pipe Line connection to present system; Division No. 3 being Pump and Motor and Accessories with optional bids on same; Division No.

### American Tent & Awning

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St. Paul, - Minn. Co. 307-11 Washington Ave. N.  
Minneapolis, Minn.

### SLEEPING PORCH CURTAINS

4 being a Drilled Well, 16 inches, 20 inches or 24 inches in diameter and Division No. 5, optional, being Reinforced Concrete Dug Well and Accessories. All work on the above to be furnished and installed complete together with all accessories ready for continuous use and successful operation and to be finished in accordance with the plans and specifications.

A certified check in the amount of \$1,000.00 must accompany the proposal for the entire work; one or more divisions shall be accompanied by a certified check for \$200.00 for each division bid upon. These checks are to be made payable unconditionally to C. J. Sundblad, City Clerk, as a guarantee of good faith on the part of the contractor that he will enter into a contract for the price bid if his proposal is accepted by the City of Alexandria, Douglas County, Minn. The City of Alexandria, Douglas County, Minn., through its officers reserves the right to reject any or all bids.

MR. LOUIS GINTHER, Mayor.

C. J. SUNDBLAD, City Clerk.

### PROPOSALS FOR ENGINES AND ELECTRICAL EQUIPMENT.

Melrose, Minn.

The City of Melrose, Melrose, Minn., will on the 26th day of May, 1914, at 9 o'clock P. M., receive proposals for the furnishing of, F. O. B. cars, Melrose, Minn., one 100 K. W., 2,300 volt Engine type, 2 phase Alternator, direct connected to a suitable Engine. Specifications for the equipment are on file at the office of the City Clerk, Melrose, Minn., where they are open for inspection.

F. J. WEISSER,  
City Clerk.

(Continued on page 21)



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ST. PAUL, MINN.



**SEWERS, LAKEFIELD, MINN.**

NOTICE IS HEREBY GIVEN, That sealed proposals for the construction of a sanitary sewer and purification plant in the Village of Lakefield, Jackson county, Minnesota, pursuant to Section 7, of Chapter 312 of the General Laws of Minnesota for 1903, will be received by the Village Council of the said Village of Lakefield until Tuesday, June 9, 1914, at 8 o'clock P. M.; and that said proposals will be opened for consideration by the said Village Council at 8 o'clock P. M., on Tuesday, June 9, 1914, at the Council Chambers in the Village Hall in said Village of Lakefield.

All proposals must be accompanied by a certified check, payable to H. A. Rost, Village Treasurer, or cash, for at least 15 per cent of the amount of the bid; be securely sealed; be endorsed upon the outside wrapper with a brief statement or summary as to the work for which the bid is made; and be directed to R. J. Hill, Village Clerk, Lakefield, Minnesota.

All proposals shall be upon a basis of cash payment for the work.

Plans and specifications of the proposed work are on file and may be seen at the office of the Village Clerk of said Village of Lakefield. Copies of such plans and specifications may also be seen at the Builders' Exchanges at St. Paul, Minn.; Minneapolis, Minnesota, and Fargo, N. Dak.; and also at the office of Engineer J. A. Rowat, Willmar, Minn.

The work to be done, is as set forth in the said plans and specifications, and is approximately as follows:

- 2,588 feet of 15-inch sewer.
- 3,004 feet of 12-inch sewer.
- 2,440 feet of 10-inch sewer.
- 11,296 feet of 8-inch sewer.

Settling tank and sledge bed and buildings therefor.

The Village Council reserves the right to reject any and all bids.

By Order of the Village Council,  
(Seal.) R. J. HILL,  
Village Clerk.

**NOTICE TO CONTRACTORS.  
School, Ely, Minn.**

First. Sealed bids will be received by the School Board of the Independent School District No. 12, St. Louis County, Minnesota, for the erection and completion of a 24-room, fireproof building, up till two o'clock P. M., June 1, 1914.

Second. Each bid must be accompanied by a certified check in the sum of five per cent of the bid, made payable to James Moonan, Treasurer of said Independent School District No. 12, as a guarantee that the bidder will enter into contract and give bond as required by law for the execution of same if he be awarded the contract.

Third. Contractors will be required to bid on blanks furnished by the Architect.

Fourth. Contractors contemplating bidding will be required to furnish the References with regard to their responsibility of the Board, Thos. E. Miller, Ely, Minn., the names and addresses of three owners for whom they have erected buildings during the past three years. Also the name of the Bonding Company with whom they do business, these names to be furnished at least ten days before date of letting.

Fifth. Plans and specifications can be seen on file with Thos. E. Miller, Secretary School Board, Ely, Minn., with the architect, C. Howard Parsons, 601 Phoenix Bldg., Minneapolis, Minn., and in the

St. Paul, Minneapolis and Duluth Builders' Exchanges.

Sixth. Contractors can secure a set of blue prints and specifications for their own use until the date of letting, if they qualify under the requirements of this advertisement with regard to responsibility by filing with Thos. E. Miller, Secretary, the information asked for in paragraph four of this notice.

Seventh. Blue Prints will be furnished by architect on telegraphic order of Thos. E. Miller, Secretary, for same.

Eighth. Bids will be addressed to Thos. E. Miller, Secretary School Board, Ely, Minn., and endorsed on envelope, Bid for Ely, Minn., School Building and marked according to the proposition on which bid is based.

Ninth. Bids will be received on the following propositions:

- (A) Main Building, Boiler House, Stack and two subways complete.
- (B) System of Plumbing complete.
- (C) System of Heating and Ventilation complete.
- (D) System of Electric Installation for both lighting and power.
- (E) System of Vacuum Cleaning complete.

The Board reserves the right to reject any or all bids.

By order of the Board.  
THOS. E. MILLER,  
Secretary.

**STORE AND HALL.  
Windom, Minn.**

The undersigned hereby gives notice that sealed proposals for the erection of store and I. O. O. F. hall, including all labor and material, will be received by the undersigned at Windom, Minn., until the hour of 4 p. m., on the second day of June, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by Albert Schippel, Architect, of Mankato, Minn., which may be seen at the office of the architect on and after May 18, 1914, and may also be seen on application to Strunk-Sherwin Co., Windom, Minn., and the St. Paul and Minneapolis Builders' Exchanges.

A certified check for \$200.00, payable to the order of A. F. Strunk, Secretary of Building Committee, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the sum of full amount of contract price for the faithful performance of the contract.

The right is reserved to reject any or all bids.

(Signed) A. F. STRUNK,  
Secretary Building Committee,  
Windom, Minn.  
ALBERT SCHIPPEL,  
Architect.

**ADVERTISEMENT FOR BIDS.  
Road Culverts, Shakopee, Minn.**

Sealed bids will be received at the office of the County Auditor of the County of Scott, at the Courthouse in the City of Shakopee, Minn., until 10 o'clock A. M., July 13, 1914; for culverts to be used in construction of State roads in Scott County for the year 1914.

Bidders must accompany their bids with a chemical analysis of the material offered.

The Board reserves the right to accept or reject any proposal.

A. J. MAYER,  
County Auditor, Scott County, Minnesota.

**CHURCH, EDGELEY, N. D.**

The undersigned hereby gives notice that sealed proposals for the erection of a brick and stone church building, including all labor and material, will be received by Mr. Chas. Gunthorp, Edgeley, N. D., until the hour of 10 A. M., on the 25th day of May, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by Geo. F. Fossum, Architect, of Aberdeen, S. D., which may be seen at the office of the Architect on and after the 5th day of May, 1914, and may also be seen on application to Mr. Chas. Gunthorp, Edgeley, N. D.; also at the Builders' Exchanges of Minneapolis and Fargo.

Bids on the plumbing and heating will be received the same date under separate contract.

A certified check for 4 per cent, payable to the order of Mr. Chas. Gunthorp, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the full sum of the bid for the faithful performance of the contract.

The right is reserved to reject any or all bids.

(Signed) MR. CHAS. GUNTHORP,  
Edgeley, N. D.

**NOTICE FOR BIDS.  
Decorating, Etc.**

**Tyndall, S. D., Court House.**

Separate sealed proposals, for the furnishing and installation of:

1. The Metal Furniture, Fixtures and Equipment;
  2. The Wood Furniture, Fixtures and Equipment, and
  3. The Interior Decorating
- of the Bon Homme County Court House, at Tyndall, S. Dak., directed to C. E. Stoddard, County Auditor, Tyndall, S. Dak., and endorsed "Furniture" or "Decorating," as the case may be, will be received on June 9th, 1914, at 10 o'clock A. M. for the wood furniture and on June 10th, 1914, at 9 o'clock A. M. for the metal furniture and decorating.

Each bid is to be accompanied by a certified check in a sum equal to 5% of the contract price, made payable to C. L. Bohac, Treasurer. The checks of unsuccessful bidders will be returned after the award of contract, while those of the successful bidders will be returned after they have entered into contracts and furnished bonds, all of which shall be entirely satisfactory to W. W. French, State's Attorney.

Plans are on file at the office of C. E. Stoddard, County Auditor, Tyndall, S. Dak., and at the office of Joseph Schwarz, Architect, Sioux Falls, S. Dak.

Parties desiring the loan of a set of plans for their own use, for the purpose of figuring, can obtain them from the architect, upon a deposit of \$10.00, one-half of which will be refunded upon the return of said plans.

The sum set apart for the wood furniture is \$4,000.00 and for the decorating \$2,000.00.

The County Commissioners of Bon Homme County, S. Dak., reserve the right to reject any or all bids.

C. E. STODDARD,  
County Auditor.



**Employers' Liability Insurance  
Surety and Fidelity Bonds.**

## FRED L. GRAY COMPANY

THE LARGEST AGENCY OF ITS KIND  
IN THE NORTHWEST

More than 50,000 personal  
injury cases handled for  
contractors and others  
since 1892.

Security Bank Bldg..

MINNEAPOLIS

### BIDS WANTED FOR 23-MILE ROAD.

State Rural Highway, Marshall, Minn.

Notice is hereby given that on the 2d day of June, 1914, at two o'clock p. m., at the County Auditor's office, Marshall, Minnesota, I will sell the jobs of constructing State Rural Highway No. 54 of Lyon County, established by the Board of County Commissioners of Lyon County, State of Minnesota, by their order bearing date April 28, 1914, viz.: For the work as one job, and also for one or more sections of 100 feet each, and also for one or more of the construction jobs, each of said sections to be known and numbered by stakes as shown by the report of the Engineer in said matter, commencing at the one including the terminus, and from thence successively, to the

one including the beginning to the lowest responsible bidder or bidders, and that bids are invited for said work; said work to be completed within the time required and in the manner specified, in said Engineer's report. And no bid will be entertained which exceeds more than thirty (30) per cent over and above the estimated cost of the construction, in any case as stated in the said order; and the successful bidder will be required to give a satisfactory bond, to be approved by the Auditor of said County, with two freehold sureties, for the faithful performance and fulfillment of his contract, and to pay all damages that may accrue by reason of his failure to complete the job within the time required in the contract and to pay all material and labor claims. The said order and estimates

## PROPOSALS

and profile are on file, and may be seen at my office.

The approximate amount of work to be done in the construction of such State Rural Highway is as follows:

### Grading.

27,580 lineal feet of turnpiking; 97,890 cubic yards of excavation; 23¼ miles of construction dragging; twenty-foot roadway.

### Gravel Surfacing.

19,880 cubic yards of gravel; eight-foot roadway.

### Corrugated Culverts.

82 concrete culverts, containing approximately 520 cubic yards; 6 reinforced concrete culverts, containing approximately 200 cubic yards.

### Concrete Culverts.

500 lineal feet 12-inch corrugated iron culverts.

### Railing.

1,616 lineal feet wood hand rail.

### Length.

Total length of road, 23¼ miles.

### Cost.

Total estimated cost of construction, \$51,668.37.

All bids must be accompanied by a certified check, payable to the Auditor of said county, for not less than ten per cent of the amount of each bid.

The right to reject any and all bids is hereby reserved.

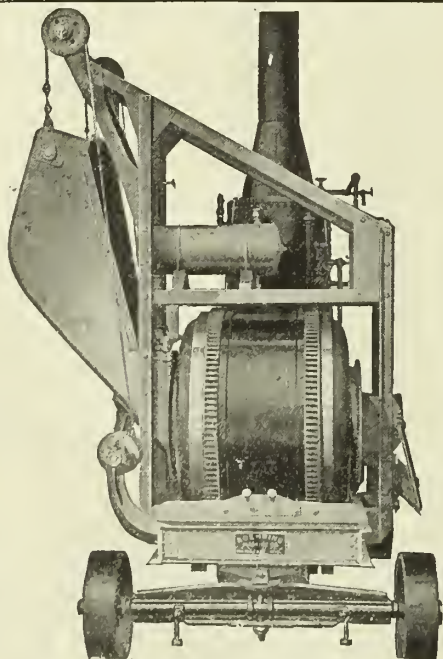
Dated at Marshall, Minnesota, this 30th day of April, 1914.

ERNEST S. SHEPARD,

Auditor,

Lyon County, Minnesota.

(Continued on page 23)



## Why don't YOU use a Koehring "3 in 1" Mixer?

See These Machines. Four Different Sizes, Now in Stock, at Our Midway Warehouse.

Phone us for appointment today. N. W. Main 330; T. S. Annex 330. Get our New Year's Guarantee.

## Koehring Machine Company

Milwaukee

Wisconsin

N. W. Branch Office, H. B. Jones, Dist. Mgr.,  
349-351 Security Bank Bldg. Minneapolis

**Any town:**—City Engineer Wise is preparing plans for concrete road construction. Specifications call for clean sand, good stone or gravel and Atlas Portland Cement.

HAVE YOU PUT IN YOUR BID?



**CALL FOR BIDS ON CONCRETE MIXER; ALSO ON SCARIFIER.**  
Buhl, Minn.

Notice is hereby given that sealed bids will be received by the Village Council of the Village of Buhl, St. Louis County, Minnesota, at a special meeting thereof to be held in the Council Chamber, in said Village, on Wednesday the 27th day of May, 1914, at eight o'clock, P. M., on the following: One concrete street paver, capacity ten to twelve cubic feet of loose material per batch, gasoline driven, tractor type, equipped with power loader, automatic water tank, 20-foot standard distributing boom, gasoline engine to be protected by steel housing; paver to be equipped with extra 10-foot distributing spout. Shipment to be made within one week of acceptance of bid.

Notice is further given that separate bids will also be received by said Council at said time and place, on the following: One scarifier for use in loosening hard packed gravel in preparing sub-grade for concrete pavement. Bids are requested on various sizes and types, suitable for this class of work. Shipment to be made within one week of acceptance of bid.

All bids on both of the above must be in the hands of the Village Recorder not later than 8:00 P. M., of said day. The Council reserves the right to reject any and all bids.

Dated May 14, 1914.

F. J. DEMEL,  
Village Recorder,  
Buhl, Minn.

**BIDS WANTED.**

Church, Springfield, Minn.

The undersigned hereby gives notice that sealed proposals for the erection of brick and stone church, including all labor and material, will be received by Rev. Henry Perry Fey, until the hour of 7 P. M., on the 15th day of June, 1914.

All bids must be in strict accordance with the plans and specifications, prepared by Parkinson & Dockendorf, La Crosse, Wis., which may be seen at the office of Rev. Henry Perry Fey on and after June 25, 1914, and may also be seen on application to the architects, and at the Builders' Exchange, Minneapolis, Minn.

A certified check for 5 per cent of bid, payable to the order of Geo. P. Forster, Treasurer, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the sum of 50 per cent of contract price, for the faithful performance of the contract.

The right is reserved to reject any or all bids.

Signed REV. HENRY PERRY FEY,  
By J. K.

GEO. P. FORSTER,  
Treasurer, by J. K.  
JOS. KREITINGER.

Springfield, Minn.,  
June 19, 1914.

**NOTICE FOR BIDS.**

Store, Badger, Minn.

Notice is hereby given that sealed proposals will be received by the board of directors of the Badger Co-operative Building Co., up to 1 o'clock P. M., Tuesday, June 2, 1914, for labor and materials in the construction of a concrete block store building at Badger, Minn. All proposals must be marked "Proposals for

Building," and accompanied by a certified check in the sum of \$300, payable to secretary of said company. Plans and specifications may be seen at the People's Store, Badger, or may be had on application to secretary.

Dated at Badger, Minn., May 18, 1914.

OSCAR ERICKSON,  
Secretary.

**NOTICE FOR BIDS.**

Road in Steele County, North Dakota.

The Board of County Commissioners will receive sealed bids for construction of 26 miles of road.

Bids will be opened at 2 p. m., on June 12, 1914.

Specifications may be had from undersigned after June 6th.

Certified check for 5 per cent of bid required.

G. J. MUSTAD,  
Sherbrooke, N. D.

**NOTICE TO CONTRACTORS.**  
**SEWERS.**

Sealed proposals will be received at the office of the City Auditor of the City of Mitchell, South Dakota, until 8 o'clock p. m., June 1, 1914, for the construction of lateral sewers, including labor and material in said City of Mitchell, as follows:

Branch "AC," Sewer District No. 2—Approximately 832 feet 8-inch pipe, 2 manholes.

Branch "AD," Sewer District No. 3—Approximately 547 feet 8-inch pipe, 1 manhole.

Branch "AE," Sewer District No. 1—Approximately 367 feet 10-inch pipe and 1,675 feet 8-inch pipe; 5 manholes.

Branch "AF," Sewer District No. 2—Approximately 1,185.9 feet 8-inch pipe, 2 manholes.

Branch "AG," Sewer District No. 2—Approximately 1,331 feet 8-inch pipe, 3 manholes.

All complete and connected with existing sewers.

All work to be done in accordance with plans and specifications on file in the office of the City Engineer.

All bids must be accompanied by a certified check upon some solvent bank in the City of Mitchell or a draft made payable to the City Treasurer of said city, in the sum of five per cent of the amount of the bid, to insure the signing of the contract and furnishing of proper and acceptable bond in the amount of twenty-five per cent of contract price within eight days from time of notification of the award of said contract.

The City Council reserves the right to reject any or all bids.

Dated at Mitchell, South Dakota, this 8th day of May, 1914.

N. H. JENSEN,  
City Auditor.

**NOTICE TO CONTRACTORS.**

High School Building, Dollar Bay, Mich.

Sealed proposals will be received by the Board of Education of the Public Schools of Osceola Township, up to 3:00 P. M., June 2, 1914, for the erection of a High School Building in Dollar Bay, Mich., separate bids being desired as follows:

General Construction.

Heating, Plumbing and Vacuum Cleaning in one bid or separate.

Electrical Work.

Plans and specifications for the above may be procured from the Architect, Derrick Hubert, Suite 5, Spies Building, Menominee, Mich., by depositing with him \$15.00 for general plans; \$10.00 for

heating, plumbing and vacuum cleaning plans, and \$10.00 for electrical plans to insure prompt return of plans and specifications and that a bid will be submitted upon them; the amount deposited will be returned to parties complying with these requirements, otherwise the amount will be retained.

A certified Check or Bidders' Bond will be required with bids as follows:

General Construction, 2 per cent of bid.  
Heating, Plumbing and Vacuum Cleaning, 5 per cent of bid.

Electrical, 5 per cent of bid.

A Surety Company Bond for the full amount of the contract to the People of the State of Michigan, and one to the Public Schools of Osceola Township, will be required of each contractor. The owners reserve the right to accept any bid or reject any or all bids.

WM. H. HARRIS,  
Secretary.

**PAROCHIAL SCHOOL AND RESIDENCE.**

Le Sueur Center, Minn.

Sealed bids will be received by the Trustees of Church of St. Mary, Le Sueur Center, Minn., until 2 P. M., June 9, 1914, for the erection of a school building and Sisters' residence, all according to the plans and specifications prepared by H. C. Gerlach, architect, Mankato, Minn. Owner will do all the excavating. Surety bond in full amount of contract price. Certified check for 5 per cent of bid required with each bid. Plans may be seen at the office of the architect, at Builders' Exchange, Minneapolis and St. Paul, and at the office of the undersigned. For further particulars address,

THOMAS J. LYNCH,  
Secretary.

**BIDS WANTED FOR EXCAVATING.**

To sublet about 23,000 cubic yards excavation, suitable for wheelers or a small dragline scraper for railroad work.

TANNER BROS.,  
General Contractors,  
Room 9, Detroit Bldg.,  
St. Paul, Minn.

N. W. Cedar 9497.

**PROPOSALS FOR THE FURNISHING OF COMPETITIVE SKETCHES FOR CITY HALL.**

St. Cloud, Minn.

Notice is hereby given that competitive sketches, without cost to the City will be received at the office of the undersigned on the 23rd day of June, A. D., 1914, at 3 o'clock, P. M., for a combination City Hall, Fire House and Jail, providing for two stories and full basement. The building shall contain the following:

IN BASEMENT—Rest Room, Ladies' Toilet, Men's Toilet, Shower Bath, Gymnasium for Firemen and Police, City Engineer's Office, Furnace and Coal room.

ON FIRST FLOOR—Fire Apparatus Room, Toilet, Vault, Four or Five Office Rooms, Police Headquarters and Jail.

ON SECOND FLOOR—Vault, Four or Five Office Rooms, Firemen's Sleeping Room, Battery Room, Toilets, Shower Bath, Public Hall or Municipal Court Room.

The size of lot is 100 by 132 feet, facing West.

The City is under a Commission Form of Government, having a Mayor and Two Commissioners.

Witness my hand and seal of the City of St. Cloud, Minn., this 15th day of May, A. D., 1914—

(Seal.) GEO. G. MAGNUSON,  
City Clerk.

(Continued on page 24)



LINOFELT should be your first thought this spring in building that new home—or remodeling the old one. We know you want COMFORT above all things. Get it. Use Linofelt. Actual tests show it to be 38 times more efficient than building paper. The difference in initial cost will be made up the second winter in fuel saved; and more, you are sure of what you are after—COMFORT. We make every form of insulation preventing cold or heat from going through walls, floors or roofs. Write for illustrated booklets.

**UNION FIBRE COMPANY, -:- WINONA, MINNESOTA**

### PROPOSAL ADVERTISING FOR BIDS

#### NOTICE TO CONTRACTORS.

School, Batavia, Iowa.

Sealed proposals for the erection of a 2-story and basement brick school house at Batavia, Iowa, according to plans and specifications by G. W. Kerns, architect, Ottumwa, Iowa, will be received by the undersigned up to 12 o'clock, May 30, 1914. A certified check of \$900 must accompany each bid. The right to reject any and all bids is reserved by the school board.

Independent School District, Batavia, Iowa.

MR. CHAS. FRESCOLN,  
President.

#### NOTICE TO CONTRACTORS.

Waterville, Minn.

Sealed proposals will be received by the City Clerk of the City of Waterville, Minnesota, until 8 o'clock, p. m., on the twelfth day of June, 1914, for the furnishing of all material and labor required for the construction of the extension and repair of the water works system for the city of Waterville, Minnesota. The following is an approximate list of the quantities required: 2,500 feet of 6-inch pipe and a flat bottom steel tank on the present steel tower, with a capacity of 70,000 gallons, and an alternate bid will be taken on a new 75,000-gallon tank on a fifty-foot tower, all erected complete, including foundation, riser pipe, frost case, expansion joint and steel roof, and also the laying of 1,320 feet of 8-inch main.

Plans and specifications may be seen at the office of the City Clerk of the City of Waterville, Minnesota, at the Builders' Exchanges, Minneapolis, St. Paul and Fargo, and at the office of the Consulting Engineer, J. A. Rowat, Willmar, Minnesota. Proposals must be made out on blank forms furnished by the City. Each proposal must be accompanied by a certified check for 15 per cent of the amount of the bid, made payable to the City Treasurer of the City of Waterville.

The City reserves the right to accept or reject any or all bids.

(Signed) A. W. KNAAK,  
City Clerk.

#### ADDITION TO HIGH SCHOOL BUILDING.

St. James, Minn.

Sealed proposals will be received up to 8 o'clock, P. M., Friday, June 12th, 1914, at the office of the Board of Education, St. James, Minn., for the erection of an addition to the present High School Building, St. James, Minn. Separate proposals are desired on General Construction, Heating and Ventilating, Plumbing and Electric Work.

Plans and specifications will be on file on and after June 1st, 1914, at the Minneapolis Builders' Exchange, and a limited number of plans and specifications will be secured at the office of the Architect, F. E. Halden, Kasota Building, Minneapolis, on the deposit of \$25.00, as a security that plans and specifications will be returned within the specified time.

Certified checks for 5 per cent of bids, made payable to Mr. Fred Church, Treasurer of the Board of Education, must accompany each bid as a guarantee that bidder will enter into contract. The checks of the unsuccessful bidders will be returned immediately upon the letting of the contract. Security Company's Bonds for full amount of the contract are required of the parties to whom contracts are awarded.

The right is reserved to reject any or all bids.

J. K. SONNESYN, President.  
FRED CHURCH, Treasurer.

#### OFFICIAL NOTICE TO CONTRACTORS.

Water Works, Colfax, Wis.

Office of Village Clerk.

Colfax, Wis., May 21, 1914.

Sealed bids for a water works system will be received by the Village Board of the Village of Colfax, Wis., until 2 o'clock P. M., May 29, 1914, on the entire system or on each division separately according to plans and specifications therefor on file with the village clerk and as follows:

Division I. Distribution Pipe line and accessories:  
Approximately 1,700 feet of 8-inch main laid 8 feet deep.  
Approximately 4,124 feet of 6-inch main laid 8 feet deep.

Approximately 876 feet of 4-inch main laid 8 feet deep.

Fourteen five hydrants, 22 valves and all specials.

Division II. A drilled well with 10-inch casing 100 feet deep equipped with a 15-foot Johnson's well screen.

Division III. Pump house, pump vault, pump pit and foundations for a pump house to be 16x20 feet in dimensions.

Division IV. Steel Tank and Tower or Wood Tank on Steel Tower, tank 40,000 gallons capacity. Tower 100 feet from capstone to bottom of tank. Bids on this division to include foundations for tower.

Division V. A 15 H. P. geared base oil engine.

Division VI. A deep well pump capable of delivering 150 gallon per minute using 24-inch stroke, running 30 R. P. M.

Division VI-A suction pump capable of delivering 150 gallon per minute using 24-inch stroke, running 30 R. P. M.

No bid for all or any of the above divisions will be considered unless unit prices are named as requested in the form of proposal.

Blank forms of proposal may be obtained from the Village Clerk.

A certified check in the amount of 5 per cent of the total bid must accompany each proposal.

The Village Board reserves the right to reject any or all bids and award the contract as they may deem to the best interests to the village.

O. G. KINNEY, President.  
B. A. ANDERSON, Clerk.

#### BIDS FOR PIPE AND COVERING.

Minneapolis, Minn.

University of Minnesota.

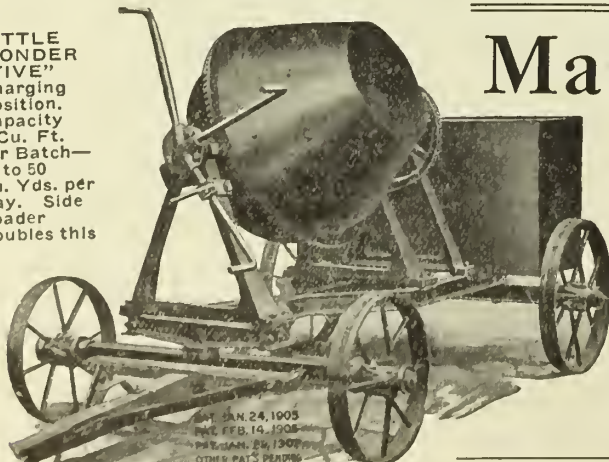
May 21, 1914.

Sealed proposals will be received up to 2 p. m., May 29th for Steam Piping and Covering for addition to U. Farm Heating plant. Plans and specifications can be seen in office of the Purchasing Officer, University of Minnesota; Certified check 2 per cent required; also bond of 75 per cent of contract; right is reserved to accept or reject any or all bids.

GEO. H. HAYES, Comptroller.  
University of Minnesota.

(Continued on page 25.)

LITTLE  
WONDER  
"FIVE"  
Charging  
Position.  
Capacity  
5 Cu. Ft.  
per Batch—  
35 to 50  
Cu. Yds. per  
Day. Side  
Loader  
Doubles this



## Make These Profits

First—50 cts. per cu. yd. over hand mixing, which pays for the mixer in 12 days. Second—TEN DAYS' FREE TRIAL, which cannot be expressed in dollars, but guarantees satisfaction. Third—Quality that insures durability and saves breakdowns and loss of time—all equivalent to profits.

### WONDER MIXERS

are known nationally and indorsed by thousands of contractors as the only logical choice. You ought to know why before you decide on a mixer—and, remember, you must be satisfied before you buy, or we pay the freight.

**WATERLOO CEMENT MACH'Y CORP'N, Mfrs.**

220 Vinton St., Waterloo, Iowa

**HALE CONCRETE MACHINERY COMPANY, AGENTS,**

1042 McKnight Bldg., Minneapolis, Minn.



**NOTICE TO CONTRACTORS.**  
**Eighteen-room Brick Public School**  
**Building, Melrose, Minn.**

Office of the School Board, Melrose, Minnesota, May 21, 1914.

Proposals will be received at the above office by the School Board of the Independent School District of the City of Melrose, Stearns County, Minnesota, up until the hour of 7:30 P. M., June 17th, 1914, for the erection of an eighteen (18) room brick school building, including all labor and materials. Bids must be in accordance with plans and specifications prepared by E. F. Broomhall, Architect, 710 Alworth Building, Duluth, Minnesota. Copies of plans and specifications may be obtained from the Architect by a deposit of \$20.00 which will be returned on the date of letting, if a bona fide bid is filed and the plans and specifications returned. Copies of plans will be on file in the Builders' Exchange of St. Paul, Minn., and Duluth, Minn., at the office of the Board and at the Architect's office. Separate proposals will be received for a strictly fireproof building and for a non-fireproof building.

Bids must be accompanied by a certified check in the sum of five (5) per

cent of the amount bid, made payable to Mr. H. F. Loosbroek, Treasurer, the same will be forfeited to the School District if the bidder fails to enter into contract and furnish satisfactory Surety Company Bond within seven days after being notified of the acceptance of his bid.

The right is reserved to accept any or reject any or all bids.

By order of the School Board.

W. F. DONOHUE, President.

W. J. STEPHENS, Clerk.

**NOTICE FOR BIDS.**

**State Road, Hastings, Minn.**

Sealed bids will be received at my office up to Ten o'clock, A. M., June 13th, 1914, for reconstructing State Road No. 2, commencing at the South line of Inver Grove Village and thence running south about one and one-quarter miles.

Estimated quantities:

Clearing .....	1.50 acres
Grubbing .....	.50 acres
Earth .....	4,900 cubic yards
Loose Rock and Earth .....	1,085 cubic yards
Solid Rock .....	2,800 cubic yards
Graveling .....	1,000 cubic yards

All of said work is to be performed according to the plans and specifications on

file at the office of the State Highway Commission and at my office. Bids must be made on standard forms of the Highway Commission and must be accompanied with a certified check for five per cent of the amount of bid, payable to me.

The County Board reserves the right to reject any or all bids.

May 21st, 1914.

P. A. HOFFMAN,  
 County Auditor,  
 Hastings, Minn.

**PROPOSALS FOR PAVING BIDS.**

**Sheldon, Iowa.**

Sealed bids will be received by the City Clerk of the City of Sheldon, Iowa, for approximately 12,000 square yards of paving.

Bids will be received on the following kinds of paving: Brick block on concrete base, asphaltic concrete on concrete base, Portland cement and Dollarway bitumen on concrete base. Said bids to be filed in the office of the City Clerk on or before 8 o'clock P. M., June 4, 1914.

K. C. Gaynor, United Bank Building, Sioux City, Iowa, engineer.

SCOTT MARTIN,  
 City Clerk.

**Milwaukee.—(Continued)**

in same block; bids on garage for W. Meyer, 5th st.; cement block, 50x50, 1-story.

Architect A. C. Eschweiler, Goldsmith building, has completed plans for a new bank building for the bank of Sullivan, Sullivan, Wis.; brick, 1-story and basement, 45x27; is taking bids this week for the erection of a church, parsonage and convent for the St. Thomas Aquinas Catholic congregation at 36th and Brown sts.; church, 70x150, and parsonage and convent each 30x45; steam heating, slate roofing, art glass; cost \$75,000.

Architects Leiser & Holst, Germania building, are taking bids on a store and flat for Mrs. S. Knoernschild, on 12th st., between Cherry and Galena sts.; solid brick, 2-story and basement, 25x76, hot water or steam heating, composition roofing, art and plate glass; are taking bids for a garage for A. Schindler on 39th st., near Lisbon av.; cement block construction, 2-story, 36x42, composition roofing.

Architect Leenhouts & Guthrie, 424 Jefferson st., have additional contracts: parsonage for First German Reform church, 9th st., between Chambers and Locust sts.; plumbing, A. H. Marquardt; on church for Bethel Evangelical congregation, 38th and Chambers sts., sheet metal, J. Romberger; residence for R. M. Thayer, Wauwatosa; heating L. J. Mueller Furnace Co.

Architect G. A. Dick, 811 State st., is taking bids for the construction of a residence for Warren R. Anderson, to be erected on Lake Drive, between Bellevue and Park pl.; brick veneer construction, 2-story and basement, 37x37, tile flooring and wainscoting, hot water heating.

Architects Charlton & Kuenzil, Camp building, are taking bids on remodeling Miners' National Bank at Ishpeming, Mich., which was partially destroyed by fire; bids on general contract only, including steam heating, steel work, concrete and cement, etc.; fixtures purchased.

Architect E. R. Liebert, Colby-Abbot building, is ready for bids on an addition to machine shop and office for Logemann Bros., at 32d and Burleigh sts.; concrete block and steel, 1-story, 50x200, steam heating, composition roofing, travelling crane, costing \$10,000.

Architect F. W. Andree, Cawker building, has commenced taking bids on a residence, owner care architect, on Grant blvd.; brick veneer, 2-story and basement, 35x48, tile flooring, hot water heating, vacuum cleaning, garbage incinerator, art glass.

Architect Chas. J. Keller, Germania building, is taking bids for a duplex flat for Victor Schlitz at 20th and Prairie sts.; to be frame, brick foundation, 26x52, 2-story and basement, tile flooring, hot water heating, art and plate glass; costing \$6,000.

Architect John Menge, Jr., Matthews building, will receive bids on addition to store of I. Goldman, 4th av. and Mitchell st.; solid brick, 2-story and basement, 40x48, hot water heating, large boiler, composition roofing, plate glass.

Architects Schnetzky & Son, Germania building, are preparing plans for a loft building for the Milant Realty Co., on

4th st., between Chestnut and Popular sts.; reinforced concrete and brick, 3-story and basement, 50x150.

Architects Christiansen & Kemnitz, 87 Howell av., are taking bids on a residence for John Hawker, 68th av., near Elm st.; brick veneer and stucco, 2-story and basement, 28x38, furnace heating, art glass; costing \$5,000.

Architect E. A. Swager, M. & M. Bank building, is taking bids on a motion picture theater, office and store building, for J. J. Schwartz, 9th and Lincoln avs.; 2-story and basement, 60x120, seating capacity of 850.

Architect A. G. Wolff, 901 Becher st., is preparing plans for a 1-store and 3-flat building to be erected on Mitchell st.; solid brick, 2-story and basement, 27x84, steam heating, gravel roofing, cypress finish.

Consulting engineers, Klug & Smith, Mack block, are taking bids on a factory building for the Standard Separator Co., to be erected in West Allis; solid brick, 1-story, 150x230, steam heating, composition roofing.

Architect L. M. Gurda, 920 2d av., has started taking figures on a duplex flat for Frank Buscynski on Chase, near Grove sts.; frame, 2-story and basement, 24x50, hot water heating.

**SIoux CITY, IOWA**

Sioux City Office: 310 Iowa Building. R. V. Sager, Representative.

The Lytle Construction Co. will erect a large building for the National Citizens' Bank at Lake Benton, Minn.; the first floor to be occupied by the bank, postoffice and grocery, the second floor to be used for office rooms.

General contract for Morningside Country club house was let to Dahl & Swanson for \$3,100, general contract only, 36x40, 10-foot porch around; Buettler & Arnold, architects, Security building.

Wm. L. Steele, architect, United Bank building, is drawing plans for a building for Geo. A. Chapman at Valentine, Neb., to be used for a drug store; 25x70; owner will buy fixtures.

S. A. Sudow will erect an apartment house at 7th and Jackson sts., to cost \$25,000; it will be 3-story, fireproof construction with brick exterior, and dimensions 96x83.

Lye & Fisher were awarded the contract for the heating and plumbing for the garage for Geo. C. Call for \$1,600; Buettler & Arnold, architects, Security building.

Board of supervisors for Woodbury county will submit to the voters on June 1, the proposition of voting a bond levy for \$500,000 for new court house.

L. G. Everist Co. has incorporated for the purpose of handling building material and the manufacture of brick. The capitalization is \$125,000.

Mason J. Foft of Kingsley, Iowa, will erect a fireproof garage at Kingsley to cost \$15,000. The Lytle Construction Co. has the contract.

Lytle Construction Co. will start work soon on a 50-room summer hotel to be built on Big Stone lake at Ortonville, Minn.

One-story brick factory building being built for the Sioux



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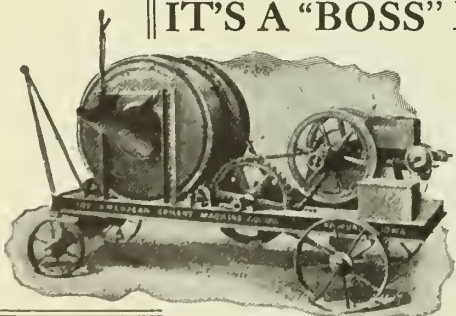
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City Welding Co., at 5th and Water sts. is nearing completion.

First National Bank at Fonda, Iowa, will build a new building of brick and stone to cost about \$6,000.

Fremont, Neb., is planning on installing a new municipal heating plant to cost about \$4,000.

## DES MOINES, IOWA

Bert N. Mills, representative, 310 Hubbell Building.

*Items marked with asterisks not in Daily Sheets.*

Des Moines spaving plans for 1914 now call for about 12 miles of construction which will include from 200,000 to 250,000 yards of asphalt, bitulithic and concrete work. A total expense, if curbing and grading are included of \$500,000. A large part of the work already has been ordered and formal action will be taken soon on the rest.

President Geo. B. Peak of the Central Life Assurance Society of Des Moines announces plans for a 6-story office building, 9th and High sts., as a home for the company; cost about half a million. The site is 132x132; fireproof, steel and concrete building proposed.

Des Moines school board has ordered the use of Des Moines made brick instead of a foreign manufactured article as first contemplated for the new North high school addition. Des Moines Clay Co. brick will be used; A. H. Neuman Co., contractors.

Will E. Johnson is chairman of a committee of Ida Grove business men who are working to solicit funds for a \$45,000 hotel to be erected there as soon as possible since the town now is without a hotel.

Fletcher & Van Vliet of Des Moines have taken out building permits for five 2-story frame houses, 6 rooms each and to cost \$1,900 each; all will be located in the west side residence district.

R. I. Holcomb of the Manchester Biscuit Co. now operating plants at Aberdeen, Fargo, Sioux Falls and Sioux City, announces that the company will build a \$125,000 factory here this fall.

The Barber Asphalt Paving Co. and the Grateless Furnace Co. announce improvements for the year to cost \$25,000; new kilns and furnaces are to be installed at the local plant.

Home lodge, A. F. & A. M., Des Moines, will spend \$25,000 in re-building its property at 604 E. Locust, 40x110, and 3-story; a new front will be built.

The Kregg 10-cent store interests will rebuild and remodel the property at 613 W. Walnut which they have secured as an addition to their present location.

W. M. Vanderwaal of Des Moines will build a four-story, concrete and steel apartment house this summer at 15th and Locust; 16 apartments.

Two large ditchers and a force of 40 men are rushing the work on the new water works system at Mt. Ayr which is to be completed soon.

Electrical permits are being issued in Des Moines at the average rate of 60 a day.

## OMAHA, NEB.

A new hospital for South Omaha was decided on at a meeting of professional and business men. It will be a Catholic institution at 36th and Q sts., where options on 4 lots have been taken. The names of the promoters will be announced after the organization May 15. The institution will be in charge of some Catholic sisterhood. It was decided to capitalize the hospital for \$25,000, fully paid; more than this amount will be expended to equip the hospital. The new hospital will be built this summer and is expected to be ready for occupancy some time in September.

Northwestern freight station to be ready Sept. 1; bids being asked; will start at 14th and Webster sts. and extend north, taking in that portion of the old building now there. It will be 1-story 45x700; cost estimated at \$55,000; pressed brick, metal roof, modern appliances for handling freight cheaply and expeditiously. Will have floor area of 31,500 square feet. In addition to the construction of the freight house \$20,000 will be expended in grading and laying team tracks in the vicinity of the building.

Harry Lawrie is architect of the Skinner Manufacturing Co., macaroni factory; 66x132, 7-story, detached boiler and engine house; reinforced concrete, steel, face brick walls, cement floors, steel window frames, fireproof; bids asked soon.

## FARGO, N. D.

VICTOR H. LEEBY,  
Builders' and Traders' Exchange

Contract for drawing plans for a fraternity hall at Breckenridge has been let to the firm of Haxby and Gillespie of Fargo. The building will be of pressed brick and thoroughly modern throughout, 2-story high with an area of 44x133 feet. The floor will be used for mercantile purposes and on the second floor will be located a large assembly room and banquet hall. The building will probably be completed this summer.

Bids are being advertised here for enlarging heating plant of headquarters building for county board, McLean county, N. D., at Washburn, N. D.; E. C. Stocker, auditor; bids in 2 p. m., June 2.

## WINNIPEG, MAN.

*Items marked with asterisks not in Daily Sheets.*

Following permits were issued: V. D. Even, dwelling, Alexander av., \$2,500; Wunsch Building Co., dwelling, Cathedral av., \$2,500; Heintz Investment Co., dwelling, Cobourg av., \$2,500; S. McMillan, dwelling, Martin st., \$2,200; M. Malitosky, apartment block Toronto st. \$40,000; D. Abramovitch is architect; S. Brynjolfson & Co., apartment block, Victor st., \$40,000; the Fort Rouge Investment Co., apartment block, on Corydon av., \$37,500, Hooper & Davis, architects; A. Gibson, (two permits) for erection of six dwellings, Doreen st., to cost \$21,000, and one for four dwellings, on Doreen st., \$14,000; B. Cohen, apartment block, Manitoba av. \$20,000; M. Blankstein, is architect; Dr. Colichman, apartment block, Selkirk av., \$15,000, H. Saltzman is architect and R. Rubin, builder; Buffalo Construction Co., four dwellings, Goulding st., \$12,000; F. J. McGreevy, two dwellings, Rosser av., \$6,000; S. Herkel, Banning st., \$3,500; A. E. Qone, dwelling, Martin av., \$3,200; E. Goldfiend, two dwellings, Harbison av. \$3,000; W. J. Parks, dwelling, corner Beverly and Livinia, \$3,000.

Permits issued: Andrews & Son, dwelling, Dormore av., \$16,500; F. E. and W. A. Dridge, store and dwelling, Main st., \$11,500; West End Realty Co., 5-story, Lilac and Dorchester av., \$10,000; Walley Construction Co., dwelling, Fleet st., \$3,000; J. Miller, dwelling, Goulding st., \$3,000; J. Popul, dwelling, Aberdeen av., \$3,000; B. Ueberle, dwelling Talbot av. \$2,700; A. Finlayson, dwelling, Ingersoll av., \$2,500; J. Wigurton, dwelling, Johnson av., \$2,500; J. Pohl, dwelling, Garfield av., \$2,200; J. A. Dixon, dwelling, Chalmers st., \$2,000; S. Benjaminson, dwelling, Maplewood av., \$5,000; P. Sigourjosson, dwelling, Beverly st., \$3,000; A. Simpson, dwelling, Sherburn av., \$3,000; A. M. Henderson, dwelling, Centre av., \$4,800; Mrs. Beath, tenement house, William av., \$3,000; The Scott Fruit Co. warehouse, Elgin av., \$40,000, the J. McDiarmid Co. are the architects and builders; A. S. Knight, apartment block, southeast corner of Chestnut and Preston, Jordan & Over are the architects; The Polish Gym.

Tenders wanted to May 30, by G. P. Campbell, secretary-treasurer, town of Transcona, Man., for well drilling, for water pipe and special castings, hydrant valves; valve boxes; laying water pipe and appurtenances; sewer pipes; sewer castings; for constructing sewers.

Tenders wanted to May 27, by R. H. Smith, secretary treasurer, Winnipeg public school board, for erection of brick and stone school, to be known as "Sir William Wyte School" on Manitoba, Magnus and Powers st. site.

Tenders wanted to June 30, by chairman, board of control, for supply and installation of necessary switch boards and other apparatus for new fire alarm office equipment.

Tenders wanted to May 20, by M. Blankstein, architect, 450 Dufferin av., for erection of brick and stone apartment block for M. Diner, on corner College and Charles st.

Tenders wanted to May 27, by chairman board of control, for supply of labor material required in erection of the reinforced concrete floors for seven fire stations.

Permits St. Boniface: C. W. Boyers, dwelling, \$2,000; Alex Lescarbeau, dwelling, \$2,000; Thomas Moin, dwelling, \$4,000; Thomas Bouchard, dwelling \$1,800.

Tenders wanted to May 25, by W. H. Montague, minister of public works, Winnipeg, for electric passenger elevators, for new Court building.

Tenders wanted to May 21, by E. D. Tuttle, architect, 700 McArthur block, for erection of fireproof school building, at St. Charles, Man.

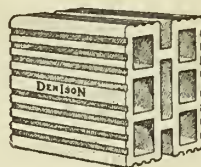
Contract for the bitulithic paving of Linden and Gauvin sts. to cost \$16,000 was awarded by St. Boniface council to Marcoux & Co.



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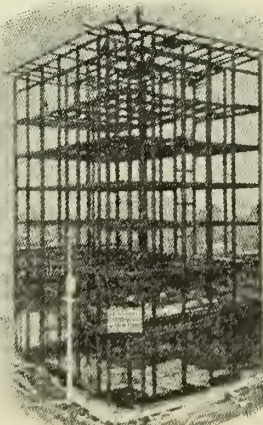
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## STREET AND ROAD WORK

*Notes arranged alphabetically by States.*

**Iowa, Burlington**—Hearing June 4, on improving a certain alley by paving with vitrified brick block on a 4-inch concrete foundation; Robt. Kröppach, city clerk.

**Iowa, Des Moines**—Grand av. will be paved from 4th to 13th sts. before the state fair, either brick, asphalt or bitulithic; objections to be heard in three weeks.

**Iowa, Des Moines**—Contract for paving and curbing E. 6th st. will probably be let to G. Mansini at \$1.62 per yard and 40c per yard for grading.

**Iowa, Dubuque**—Hearing May 21, on improving Julien av., requiring 20 lineal feet new stone curb, 100 lineal feet stone curb reset, 486 square yards Hillside brick paving inside tracks one foot outside, 2,294 square yards Hillside brick paving outside tracks, estimated cost \$6,959; J. J. Shea, city recorder.

**Iowa, Muscatine**—Hearing June 9, on two concrete culverts estimated to cost \$677; H. C. Shoemaker, county auditor.

**Minn., Cloquet**—City Engineer McGilveray is preparing plans and specifications for paving on Cloquet av., bids to be called for when completed; city authorities have investigated paving in Duluth.

**Minn., Excelsior**—City will pay half cost paving 16-foot strip of concrete on Excelsior av. from Milwaukee tracks to village limits; E. A. Close, recorder.

**Iowa, Manning**—Council has ordered that Main st. be paved from the Milwaukee railroad to the Northwestern, and one block each way on side streets; P. A. Edquist, civil engineer, Omaha.

**Iowa, Marshalltown**—Hearing June 1, on paving N. 2d st. with 2-inch wearing surface; J. J. Wilson, city clerk.

**Iowa, Mason City**—Hearing on June 8 on paving, curbing S. Main and other streets, either with trinidad, pitch lake asphalt, bermudez asphalt, No. 1, brick paving blocks or Portland cement; J. H. McEwen, city clerk.

**Iowa, Sioux City**—Hearing May 30 on cement curbing and guttering on west side of Floyd av.; Paul J. Wells, city clerk.

**Minn., Buhl**—Special council meeting practically decided to use contract for paving; address city clerk.

**Minn., Ivanhoe**—Hearing June 12, on state rural highway No. 54; Karl A. Hansen, auditor, Lincoln county.

**Minn., Monticello**—Auditor directed to advertise for road work, bids to be in by May 29, grading and graveling; check 5 per cent; John A. Berg, auditor, Buffalo, Minn.

**Minn., New Ulm**—Engineer Minium instructed to prepare plans and specifications for paving 5 blocks on Minnesota av., bids to be asked on creosoted wood blocks and brick; address city clerk.

**Minn., Pipestone**—City commission will probably vote in favor of 4 blocks of concrete paving this summer; Dr. Ynos Lowe, mayor.

**Minn., Roseau**—Regarding road work, V. B. Chapin, district engineer, Roseau, writes: Job. No. 1 is in two parts, Job. No. 1. state road No. 1 and job No. 1 state road No. 4; job No. 1 state road No. 1 is being done with hired help and foreman, job. No. 1, state road No. 4 and job No. 4, state road No. 1, will be let May 27, job No.'s 3 of state road No. 6 and job No. 6, state road No. 1 will be let some time in June.

**Mont., Anaconda**—Hearing June 1 on paving Main st., estimated to cost \$43,200; address city clerk.

**Mont., Choteau**—Council has ordered 15,000 square yards concrete sidewalks; address village clerk.

**N. D., Steele**—Bidders on general road work were F. O. Smith, city, at \$8,000, and Henry St. Jacque, Fessenden, N. D., at \$2,000.

**Sask., Moose Jaw**—Money by-laws passed authorizing raising of \$33,300; \$18,500 for certain high pressure mains and remainder for cement sidewalks, curbs and gutters; E. B. Bonnell, city clerk.

**S. D., Sioux Falls**—Property owners on Minnesota av. have decided on asphaltic concrete for paving purposes; W. C. Leyse, city auditor.

**Wis., Fond du Lac**—Bidders for paving on five streets were the Larson Construction Co., of Oshkosh, at \$12,226, and G. H. Stanchfield, city, at \$12,145.

**Wis., Madison**—Street committee has authorized purchase of street oil, sand and screenings to the amount of \$18,000; also authorized advertising for purchase of a tanten roller.

**Wis., Superior**—Plans prepared for paving Iowa av., with concrete, 9032 square yards; E. B. Banks, city engineer.

**Wis., Superior**—The board of public work will ask for bids for several miles of cement walks; address board of public works.

**Wyo., Sheridan**—Ordinance passed for paving 64,460 square

yards and granite block, wood block, asphalt and bitulithic being considered; address city clerk.

### BIDS WANTED.

**Iowa, Cedar Rapids**—Bids received by L. J. Storey, city clerk, until 10 a. m., May 22, for concrete paving on "B" av. and 32d st.; check for 5 per cent.

**Iowa, Sheldon**—Bids received by Scott Martin, city clerk until 8 p. m., June 4, for 12,000 square yards paving, either brick block, asphaltic concrete, Portland cement or Dolarway bitumen, each on concrete base; K. C. Gaynor, engineer, Sioux City, Iowa; officially advertised in this issue of the Improvement Bulletin.

**Iowa, Le Mars**—Bids received by Edwin S. Townsend, city clerk, until 8 p. m., May 25, for paving Main st. between 4th and Broadway with concrete or with asphaltic concrete (class A or B); check 5 per cent.

**Man., Winnipeg**—Bids wanted by municipality of Assinaboia for 6 miles of asphalt pavement, water and sewerage installation, to cost \$250,000, and \$35,000 worth of new sidewalks.

**Minn., Buffalo**—Bids received by John A. Berg, auditor of Wright county, until 1 p. m., May 29, for grading and graveling various state and county roads; check for 5 per cent.

**Minn., Crosby**—Village clerk M. E. Nelson has been authorized to advertise for bids for a road grader.

**Minn., Duluth**—Bids received by O. Halden, county auditor, until 2 p. m., June 4, for 3 miles of road construction on the Farmers' road, 3 1-4 miles on the Ellsburg road, and 6 1/2 miles of clearing, grubbing, corduroying and building culverts on Kangas road.

**Minn., Grand Rapids**—Bids received by M. A. Spang, auditor Itasca county, until 10 a. m., May 26, for the Nashwauk-Carpenter trunk line road; check 5 per cent; also, at same time, for divisions H, I, and J of the Duluth-St. Vincent trunk line road, between Cohasset and Deer River.

**Minn., Halstad**—Bids received by A. O. Ueland, village recorder, until 7 p. m., June 3, for cement walks, driveway crossings, curbing and cement street crosswalks; check \$100; work comprises about 17,000 square feet sidewalks and 30 to 40 crossings.

**\*Minn., Hastings**—Bids received till 10 a. m., June 13, for constructing state road 2; see official advertisement, this weeks Improvement Bulletin.

**Minn., Mapleton**—Bids received by G. N. Ackerman, recorder, until 8 p. m., May 26, for cement sidewalks.

**Minn., Ortonville**—Bids received by A. V. Randall, county auditor, until 10 a. m., June 2, for county road jobs Nos. 3, 4, 7 and 9, grading and turnpiking, the total estimated to cost \$3,105; check 5 per cent.

**Minn., Plummer**—Bids received by R. H. Green, chairman, town board of equality, until 2 p. m., June 6, for the removal of about 12,000 yards dirt for road purposes; Edw. C. Havik, town clerk.

**Minn., Spooner**—Bids received by Albert Johnson, town clerk, until June 8, for grubbing and grading a road from Kelly's bridge to Senske's bridge, one mile, and for grubbing and grading another road two miles long; bids will be received for sections of one half mile or for the entire work.

**Minn., Two Harbors**—Bids received by Aug. Omtvedt, city clerk, until 8 p. m., June 1, for approximately 5,000 barrels Portland-cement for sidewalk and street construction.

**Minn., University Place**—Bids received by Cecil C. Gates, clerk, until 5 p. m., June 1, for paving St. Paul av., described generally as improvements district No. 3; estimate authorized for paving of 18th st., preparatory to advertising for bids.

**Minn., Warren**—Bids received by A. G. Lundgren, county auditor, until June 11, for work on various state roads; check \$250.

**Minn., Worthington**—Bids received by Gus. Swanberg, county auditor, until 2 p. m., June 2, for county road job No. 8, requiring grading, graveling and turnpiking, estimated to cost \$1,795; check 5 per cent; also at same time, for county road job No. 5, grading, turnpiking and ditching, estimated to cost \$1,759.

**Mont., Havre**—Bids received by E. C. Carruth, clerk, until 8 p. m., May 26, for a culvert over Bull Hook creek.

**N. D., Bismarck**—Bids received by T. E. Flaherty, auditor, Burleigh county, until 2 p. m., June 3, for grading in accordance with plans; check 5 per cent.

**N. D., Crosby**—Bids received by W. E. Vadnais, county auditor, until 2 p. m., May 25, for road grades and bridge in Divide county; check 5 per cent.

**N. D., Linton**—Bids received by John R. Snyder, county auditor, until 2 p. m., June 2, for a concrete walk along the court house block; check 5 per cent.

**N. D., Mohall**—Bids received by Peter Carlson, auditor, Renville county, until 2 p. m., June 2, for constructing various roads in the county; also, at same time, for graveling a certain road; check 5 per cent.



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**N. D., Mohall**—Bids received by Peter Carlson, auditor Ren-ville county, until 2 p. m., June 2, to construct, surface and level grades on various roads; check 5 per cent.

**N. D., Sherbrooke**—Bids received by G. J. Mustad, for the board of supervisors, until 2 p. m., June 12, for 26 miles of road construction; specifications may be had after June 6; check 5 per cent; officially advertised in this issue of the Improvement Bulletin.

**N. D., Williston**—Bids received by O. C. Eckberg, township clerk, Missouri ridge township, until 4 p. m., June 8, for road work, grading, turnpiking, ditching and one culvert.

**Ont., Fort William**—Bids received by R. R. Knight, city engineer, until May 30, for 44,000 square yards paving.

**Ont., Sault Ste. Marie**—Bids received by the mayor until May 28, for 84,000 square feet cement concrete sidewalks.

**Wis., Green Bay**—Bids received by street and bridge committee until May 27, for a concrete pavement in the alley between Washington and Adams st., previous bids having been rejected because too high.

**Wis., Rhinelander**—Bids received by Frank E. Parker, county highway commissioner, until 6 p. m., May 25, for road construction on Three Lakes road; check \$50.

**Wis., Waukesha**—Bids received by Wm. Powrie, chairman, board public works, until 2 p. m., June 4, to macadamize Prospect Court from Maple av. to West av. with an asphalt macadam pavement and a brick gutter, and to resurface Maple av.

#### CONTRACTS AWARDED.

**Iowa, Dubuque**—Contracts for street work have been let as follows: J. M. Kennedy & Son, C. B. McNamara & Co., O'Farrel Contracting Co.

**Iowa, Elkader**—Contract awarded for grading and macadamizing of a portion of the Strawberry Point-Oelwein road to Paul N. Kingsley, Strawberry Point. Approximate quantities and unit prices, 1,300 cubic yards rock excavation at \$1.00; 200 cubic yards earth excavation at 35c; 1,700 cubic yards earth fill at 30c; 2,300 square yards of 3½-inch top course macadam at 35c; 7,100 square yards of 7 2-3-inch macadam, 2-course at 50c; county supplies all machinery, including: air compressor, "Jack Hammer" drill, rock crusher complete, six rock spreader wagons, wheelbarrows, rakes, sprinkler, grader and roller; Edw. B. Tourtellot, engineer, Clayton county.

**Mich., Ironwood**—Contract with J. E. Nichols & Son, Marenisco, Mich., for 3½ miles grading at \$11,000; same firm also has 5 miles of road to be built by Marenisco township.

**Minn., Avon**—Contract with Henning Sidewalk Co., St. Cloud, Minn., for 300 feet 6-foot cement sidewalk; the only other bidder was Gus. W. Carlson, St. Cloud.

**Minn., Bemidji**—Contract for Elwell road between Bemidji and International Falls has been let to Patridge & Harmon except for section B, which is largely ditch work, let to Geo. A. Snyder, International Falls.

**Minn., Cokato**—Contract with Ed. Eckstrom for work on state road No. 6 at \$4,410.

**Minn., Duluth**—Contract to Erick Ojakangas for 2½ miles of the Bodas road at \$42,000; to John Ketola for 1½ miles of the Cotton extension road at \$2.25 per rod; to W. A. Baune, Floodwood, for 1½ miles of the Lake road, for clearing and grubbing, \$600 per mile; for grading firm ground, 75c per rod; swamp ground, 32c per cubic yard; culverts, \$3 each; corduroy, \$2 per rod; and covering muskeg with firm earth, 50c per cubic yard; to Olson & Erickson for 4.6 miles of the Harris road at \$2,300; to the Charles W. Rood Construction Co., Grand Rapids, Wis., for ditching the Miller trunk road, clearing right-of-way for outlets, \$75 per mile; excavating ditches 19c per cubic yard; furnishing and placing 48-inch galvanized culverts, \$110 each; to F. E. Beacham, Mountain Iron, for improving a 2½ mile extension of Cotton road, for grading \$1.20 per rod; for covering muskeg, firm earth, \$1.60 per rod; corduroy, \$2.50 per rod; culverts \$5 each and outlet ditches \$1 per rod.

**Minn., Excelsior**—Contract to Louis Lundquist for cement walks during the season at 60c per yard and 26c per foot for curb.

**Minn., Excelsior**—Contract to Kocourek & Bren for gas mains on 7th av. at \$1.04 per lineal foot for 8-inch cast iron, 45 pound per lineal foot; fittings installed per pound 3c; connections at gas house \$15.00; connections at 11th av. \$8.00; connections at 1st st. \$3.00; all service connections each \$1.40.

**Minn., Hibbing**—Contract with G. L. Thouin for 15 dump wagons, 1 dozen scrapers, 1 dozen slushers and 1,000 feet metal culverts; 3,000 feet culvert purchased from Remington Lumber Co.

**Minn., Le Sueur**—Contract with John Keogh for state road No. 8, at \$6,265; J. H. Kaisersatt, clerk of board.

**Minn., Le Sueur**—Contract awarded for 16,273 cubic yards grading, 14,660 lineal feet turnpiking, 3,182.9 cubic yards graveling, to John Keogh, St. Peter, at \$6,266.

**Minn., Long Prairie**—Contract with Russell Grader Manufacturing Co. by the Todd county commissioners for two 8-horse road graders, four 2-horse graders and a carload of wheel scrapers and slushers.

**Minn., Mankato**—Contract to T. R. Coughlan for grading and surfacing portion of Main st. at \$2,189, for cement curb and gutter on a portion of Main st. at 59c per foot.

**Minn., Northome**—Contract with Northwestern Construction Co. for road work on highways Nos. 5 and 9, under the Elwell law.

**Minn., St. Paul**—Contract with Republic Creosoting Co. for cresoted paving blocks at \$1.24 7-8 per square yards.

**Minn., Winona**—Contract with Fleming & Kingsley, city, for concrete sidewalks at 9½c per square foot.

**Minn., Winona**—Contract with Fleming & Kingsley for a 6-foot stone sidewalk at 9½c per square foot; the bid of A. E. Jones was 18c.

**Mont., Dillon**—Contract to Clifton Applegate Co., Spokane, Wash., approved by the Forest Service for the Bitter Root-Big Hole, at \$16,200.

**Mont., Great Falls**—Contract with the Stimpert Implement Co. for a 30 h. p. gasoline traction engine and two Adams road ditchers or graders.

**Mont., Miles City**—Contract with Chris Arneberg for excavation of 1,200 cubic yards earth at 21c per yard.

**Neb., Grand Island**—Contract for the cement for concrete base for W. 3d st. paving to Hoagland Lumber Co.

**N. D., Ellendale**—Contract with Gates & Waite for cement sidewalks around the court house.

**N. D., Fargo**—Contract to Treadwell Twitchell for improving county road from Fargo to Mapleton at about \$4,600; Birch & Son received contract for concrete walks and driveways about the new jail.

**S. D., Pierre**—Contract with John Deering, Eureka, for 13,000 yards grading on state road work at 18c per yard.

**S. D., Pierre**—Contract with John Deering, Eureka, for 13,000 yards grading on state work at 18c per yard.

**Wis., Appleton**—Contract to Garvey & Sprister for 3,300 feet of concrete road in Kimberly at an approximate cost of \$14,000.

**Wis., Chippewa Falls**—Contract for grading 2 miles of the Stanley-Chippewa trunk line awarded to Alex Larson of Drywood at 45c per square yard.

**Wis., Green Bay**—Contract to C. S. McDonald, city, for improving Howard st., etc., at \$1,105.

**Wis., Milwaukee**—Contracts for county road work have been let as follows: Lisbon road, 2 miles, bituminous macadam, Retzlaff Construction Co., \$20,830; N. Fond du Lac, 3 miles, concrete, Raulf Construction Co., \$24,334; Watertown; 1 mile of repairs, Dean Construction Co., \$6,270; Janesville, 1 mile of repairs, Dean Construction Co., \$2,040.

**Wis., River Falls**—Contract with Frank Luberg for sidewalk and concrete work for the city for the ensuing year; Allen P. Weld, city clerk.

**Wis., Monroe**—Contract for paving street leading from public square to Milwaukee depot with brick on one block and creosoted block on remainder of street awarded to T. W. Quinn, Madison, at \$20,209.

## SEWERS

*Notes arranged alphabetically by States.*

**Iowa, Alden**—This place is planning on an extension of the drainage system to cost \$14,000; address city clerk.

**Iowa, Clarion**—Hearing June 25, on a main sanitary sewerage system in main sewer district No. 1, consisting of sanitary sewers, a sanitary sewerage disposal plant complete including septic tank, filter beds, sludge area and outlet; E. E. White, city clerk.

**Iowa, Grinnell**—Plans for the proposed sewer were expected on the 20th; must be approved by the state board of health; Iowa Engineering Co., Clinton.

**Minn., Aitkin**—Sewer ordered on Willard st.; action on Birch st. sewer postponed; address city clerk.

**Minn., Buhl**—Storm sewer 1,200 feet long to be installed on Culver av.; address city clerk.

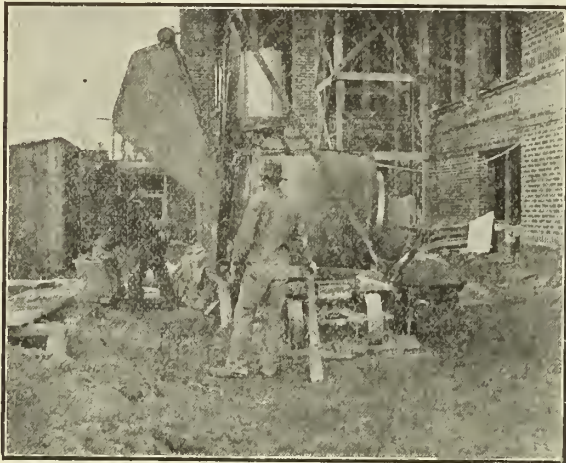
**Minn., Redwood Falls**—Council ordered sewer on 4th st.; H. W. Ward, city recorder.

**Minn., Revere**—Election May 18 on system of sewers and drains to cost \$2,000; F. B. Grindle, village recorder.

**Minn., Wadena**—Preliminary steps being taken for sewer and heating systems; an ordinance will be drafted and come up for consideration in about a week; address city clerk, L. P. Wolff, consulting engineer, St. Paul, Minn.



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**Iowa, Danbury**—E. E. Carlson, Battle Creek, has outlined a plans to the council for a sewer system; address village clerk.  
**Mont., Great Falls**—Hearing June 1, on a lateral sewer through 2d alley south; W. H. Harrison, city clerk.

**Neb., Benson**—The subject of sewerage is being agitated; address city clerk.

**Neb., Kearney**—City will advertise for bids for sewer between 21st and 22d sts.; address city clerk.

**Neb., Papillion**—Committee appointed to secure estimate of cost for a sanitary sewer through business blocks of town; address village clerk.

**Neb., South Omaha**—The Spring Lake Park Improvement club will put in a sewer between 22d and 23d sts.; plans by city engineer Beal.

**Wis., New London**—Hearing June 9, on a sewer in Hancock st.; A. Meinhardt, chairman board public works.

**Wis., Sparta**—Contract to N. F. Palen, city, for sewer extensions on Wisconsin, S. Water and Clifton sts., at \$1,985.

**Wis., Superior**—Board of public works has reported in favor of sewer in 16th st., 200 feet at \$31.25 per lot.

**Wyo., Sheridan**—A storm sewer is to be put in, vitrified tile pipe 8 to 21-inch; address city clerk.

#### BIDS WANTED.

**Iowa, Boone**—Bids received by Otto Hile, city clerk, until 7:30 p. m., May 25, for sewer and water connections extended to the curb line.

**Iowa, Montezuma**—Bids received by R. A. Mortland, town clerk, until 1:30 p. m., June 4, for sanitary sewer of vitrified clay pipe from 6 to 12-inch in diameter on various streets; check for \$500.

**Minn., Cloquet**—Bids received by J. A. Parks, city clerk, until 5 p. m., June 2, for sewer and water extensions, requiring, 1,770 cubic yards excavation, some rock excavation, 1,545 lineal feet 8-inch sewer pipe in place; 59 house connections 8x4-inch Y's; 5 manholes complete; 1,895 lineal feet 6-inch water pipe in place; 48 lineal feet 4-inch water pipe in place; 4 4-inch hydrants in place; 4 6-inch gate valves and surface boxes; 1,460 pounds specials in place; check 15 per cent.

**Minn., Madelia**—Bids received by C. T. Dahl, village clerk, until June 8, for completing sewer ordered March 9.

**Minn., Minneapolis**—Bids received by Kossuth E. Alexander, purchasing agent, until 3 p. m., May 22, for steel beams, trusses, columns, lintels, plate, anchors, etc.; check \$200.

**Minn., St. Paul**—Bids received by Leonard C. Seamer, board of public works, until 2 p. m., May 28, for a sewer on Jesamine st. and also for sewer on 9th st.; check for 10 per cent.

**Neb., Norfolk**—Bids taken by P. Stafford, city clerk, about June 25, for an 18-inch vitrified pipe storm sewer estimated to cost about \$2,000.

**Neb., University**—Bids received by Cecil C. Gates, city clerk, until 5 p. m., June 1, for an 8-inch pipe in district No. 25, estimated to cost \$1,710.

**Wis., West Salem**—Bids received by S. W. Brown, village clerk, until 8 p. m., June 2, for four blocks of sewer, 931 feet 6-inch sewer and 896 feet 8-inch, 4 manholes; check 5 per cent.

#### CONTRACTS AWARDED.

**Iowa, Dubuque**—Contract with M. O'Hagen for sanitary sewer in west 8th st.; with C. B. McNamara & Co., for sanitary sewers in Malady st., and Cardiff st.; with O'Farrell Contracting Co., for storm water sewer in west 14th st.

**Iowa, Mason City**—Contract to A. L. Willson Co., city, for lateral sewers; S. R. Bowen, city, was also a bidder.

**Iowa, Schaller**—Lytle Construction Co., Sioux City, has contract for sewer system.

**Iowa, Sibley**—Contract to Sibley Cement Co., city, for sewer pipe in district 18 at \$16,935; other bidders were: Graves & Imhoff, Melvin, Iowa, \$19,415; Parish & Sedgley, Worthington, Minn., \$19,250; Worthington Tile Co., Worthington, \$17,122; P. L. Rivard, Pocahontas, Iowa, \$17,699; L. A. Wilson, engineer.

**Minn., Duluth**—Contract for construction of Duluth Heights sewer system consisting of 25,329 lineal feet vitrified pipe varying from 8 to 18 inches awarded to Rogers & McLean, at \$41,433.

**Minn., Mankato**—Contract to C. M. Masters for sewer on Washington st. at \$633.

**Minn., St. Paul**—Contract to Thornton Bros. for the Griffith-Terry sewer system at \$65,787; engineer's estimate was \$64,764; highest bid was by Doherty & Sons at \$88,770.

**Neb., Hastings**—Contract to Rutherford Bros. for sewer mains in West Lawn addition.

**Neb., North Platte**—Contract to C. J. Burke for one mile of 10-inch sewer.

**N. D., Valley City**—Contract with Haggart Construction Co., Fargo, N. D., for three different jobs of 10-inch sewer construction at \$3,553; C. A. Myhre, city engineer.

## BRIDGES

*Notes arranged alphabetically by States.*

**Iowa, Anamosa**—Resolved to erect bridge in Greenfield township; objections heard June 8; E. J. Hines, auditor.

**Iowa, Marshalltown**—An election will be called to vote bonds to replace all wooden bridges in county with concrete structures; D. C. Maytag, chairman.

**Iowa, Rockford**—Resolved to construct 10 concrete bridges in Floyd county, I. H. B. Rosenkrans, county auditor.

**Iowa, Waterloo**—Resolved to construct 18 bridges in Black Hawk county; objections heard May 25; J. J. Rainbow, county auditor.

**\*Minn., Shakopee**—County auditor was authorized to advertise for bids for culverts; bids to be opened 10 a. m., July 13.

**Mont., Billings**—Petition presented to county clerk Williams, for bridge over Yellowstone near Worden on the N. P. and Ballantine on the Burlington; will be acted on at next session of county board.

**Mont., Lewistown**—Council adopted resolution to pave Janeaux st., improvement to include concrete bridge.

**\*Mont., Red Lodge**—The Commercial club has secured by private subscription, funds to erect bridge across Clarke Fork river.

**Mont., Willow Creek**—County commissioners of Gallatin and Jefferson county remaking plans to build a bridge across the river at this point; write county clerk Schumacher.

**S. D., Miller**—\$3,000 concrete bridge may replace west side steel bridge.

**Wis., Appleton**—Tentative plans for the Lawe st. bridge have been completed by city engineer A. C. Ramley; council may not decide to build bridge this year.

#### BIDS WANTED.

**Iowa, Estherville**—Bids received 12 m., May 26, for one 219 foot concrete deck girder bridge, 4 42-foot span and 2 15-foot approaches, to be built over Des Moines river; check for 5 per cent; address bids to county auditor.

**Iowa, Keokuk**—Keokuk and Hamilton bridge over the Mississippi will be rebuilt by bridge company of New York; Theo. Gilman, secretary; cost \$360,000; Ralph Modjeska, engineer.

**Iowa, Le Mars**—Bids received May 20, 2 p. m., for construction of 45 concrete culverts in Plymouth county; check for 5 per cent; Geo. M. Smith, county auditor.

**\*Minn., Butterfield**—Bids opened at State Bank here, 10 a. m., June 1, for construction of box culvert in town of Odin; O. T. Lantz, town clerk.

**Minn., Little Falls**—Bids received by M. J. Viechorek, 2 p. m., June 1, for construction of concrete culvert on Long Prairie road; check for 5 per cent.

**Iowa, Mason City**—Bids received 10 a. m., May 25, for building reinforced concrete arch bridge 35-foot span in new city park over Willow Creek; check for \$200; payable to S. A. Schneider, treasurer; J. H. McEwen, city clerk.

**Iowa, Mason City**—Bids received 10 a. m., May 25, for concrete bridge at East Park; F. P. Wilson, city engineer.

**Minn., Grand Rapids**—Bids received 10 a. m., May 26, for corrugated culverts. M. A. Spang, county auditor; plans by state highway commission, St. Paul.

**Minn., Montevideo**—Bids received by town board of Havlock, B. W. Mills, clerk, for concrete abutments for two bridges. May 25, 3 p. m.,

**Minn., Shakopee**—Bids received by A. J. Mayer, 11 a. m., July 13, for building state bridge No. 11, in town of Glendale, 24-foot span, 24-foot roadway concrete and gravel floor on concrete foundations; check for 5 per cent.

**\*Minn., St. James**—Bids received by Jos. Lunz, town clerk, 2 p. m., June 1, for building state bridge No. 1623, 30-foot span, 18-foot roadway; check for 5 per cent.

**Minn., St. James**—Bids received by J. C. Jensen, county auditor, 2 p. m., June 1, for building state bridge 1256 on state road No. 3; check for 5 per cent; plans at office of state highway commission.

**Minn., Westbrook**—Bids received 1 p. m., June 2, for concrete abutments and floor for steel bridge between section 4 and 9, town of Storden, 10x20, 2 wings 8 feet and 2 wings 6 feet; township to furnish all materials.

**Mont., Billings**—Bids received by C. H. Newman, chairman, 2 p. m., May 23, for three sectional concrete culverts on E. C. Sampson road near Huntly; check for 5 per cent.

**\*Mont., Choteau**—Bids received by E. C. Garrett, county clerk, 10 a. m., June 5, for construction of steel truss bridge, 160 feet, 16-foot roadway, steel hand rail, steel floor and joists across Cut Bank creek; check for 10 per cent, payable to E. D. Forrest, treasurer.

**N. D., Cooperstown**—Bids received by H. S. Rearick, county



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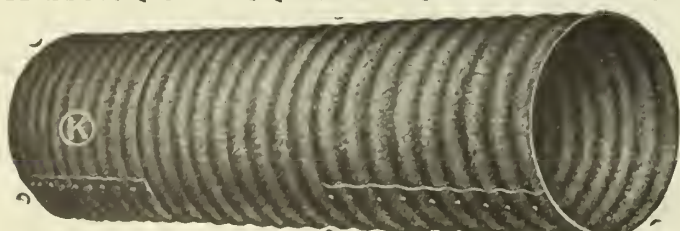
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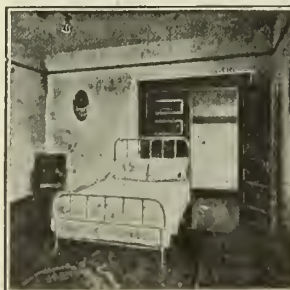
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auditor, for two steel bridges, one across Sheyenne river, 80 feet long, 18-foot driveway, steel and concrete piers, one over Ball Hill creek, 36 feet long, 18-foot driveway, steel and concrete piers.

**N. D., Fargo**—Bids received by Addison Leach, county auditor, 12 m., June 17, for a 50x18, low truss bridge concrete floors and abutments in Normania township; check for \$100.

**N. D., Linton**—Bids received by John Snyder, county auditor, 3 p. m., June 2, for construction of steel bridge 34 feet long, concrete floors and abutments on Cat Tail creek; check 5 per cent.

**N. D., Ryder**—Bids received 2 p. m., June 1, by L. J. Thompson, county auditor, as follows: 16-foot span, concrete abutment wood top bridge between sections 31 and 6, township 155-86, wooden bridge, 12-foot span and filling approaches between sections 35 and 36-157-86; repairs on wooden bridge between sections 25 and 26-157-86; check for \$50.

**S. D., Ortle**—Bids received by Aug. Hoyland, clerk, May 27, for construction of concrete abutments for a steel bridge across creek in section 8.

**\*Wis., Superior**—Bids received by N. A. Thompson, Wascott, Wis., 12 m., May 30, for construction of concrete abutments for a bridge over Eau Claire river, 3 miles east of Gordon and for a steel I-beam bridge, 36-foot span, 16-foot roadway over river at same place; bids on both 12 and 15-inch beams; check for 5 per cent.

**\*Wis., Washburn**—Bids received by Nels M. Oscar, county clerk, 2 p. m., May 26, at office of T. F. McMiller, in town of Iron River; check for \$100.

**\*Wis., Appleton**—Bids received by E. L. Williams, clerk, 9 a. m., June 16, for steel or reinforced concrete bridge over Fox River, from Law st. to Grand Chute Island.

#### CONTRACTS AWARDED.

**\*Iowa, Leon**—Contract to Iowa Bridge Co., Des Moines, for concrete bridge on Main st., over Burlington tracks.

**Minn., Duluth**—Contract for bridge over Pike creek to Illinois Steel Bridge Co., \$4,296; steel bridge over St. Louis river to Iowa Bridge Co., at \$2,274; reinforced concrete bridge across Keene creek to W. H. Kiltin, West Duluth.

**Minn., Iron Mountain**—Contract for bridge over Sturgeon river let to Harrison G. Robey.

**Minn., Shakopee**—Bids received by A. J. Meyer, county auditor, 10 a. m., July 13, for culverts to be used in construction of state roads in Scott county in 1914.

**\*Minn., Tower**—Contract let for bridge across Pike river at Peyla.

**Minn., Walker**—Contract for three bridges let to Hennepin Bridge Co.

**Mont., Billings**—Contract for metal culverts awarded to Klauer Manufacturing Co., Dubuque, Iowa.

**\*N. D., Fargo**—Jardine & Anderson received contract to build several county bridges; county auditor was instructed to advertise for three bridges, one over the Sheyenne in Normania township, one in Casselton township and one near Buffalo.

## ☐ DRAINAGE AND IRRIGATION ☐

*Notes arranged alphabetically by States.*

**Iowa, Bloomfield**—H. O. Wray, county engineer, has received bids for 6,000 yards excavation, near Davis county court house.

**Iowa, Boone**—Hearing June 11 on district 118; engineer's report favorable; G. H. Getty, auditor.

**Iowa, Storm Lake**—Supervisors established Brimmer district 60, and Gardner district 59.

**Minn., Hibbing**—Special engineer Silliman, recommends construction of diversion ditch; cost about \$15,000, for Penobscot creek.

**Minn., Redlake Falls**—Geo. Ralph former state engineer, St. Paul, has filed report with C. W. Johnson, clerk of court on judicial ditch 60; favorable action expected; about 45 miles of main and branch ditches, in 3 counties; estimated cost \$50,000.

**Mont., Great Falls**—Condon & Williams, contractors, of schedule 20-21, St. Mary canal, will start work this week.

**Mont., Great Falls**—Survey ordered, Chinook unit Milk River project, 100,000 acres.

**Mont., Malta**—Low bidder on earth work Spillway channel, Vandalia dam, was Jas. O'Connor, Council Bluffs, Iowa, \$25,220; 160,000 cubic yards.

**Neb., Kearney**—Order incorporating drainage district 4, 3,700 acres, entered by Judge J. B. Raper, Richardson county court; meeting May 29, for choosing supervisors.

**Neb., Niobrara**—C. W. Baker and engineers, and workmen, have begun active operations on the canal to furnish power for the Niobrara-Sioux City electric line.

**S. D., Vermilion**—Joint meeting May 26, to consider \$160,000 drainage ditch project for Yankton and Clay counties.

**Wis., Wausau**—Hearing 10 a. m., June 1, on Dancy drainage district.

#### BIDS WANTED.

**Iowa, Algona**—Bids received till May 27 on 6 drains; one includes 355,515 feet tile, 617,000 yards open work; another, 232,000 feet tile; 233,042 yards open work.

**Iowa, Storm Lake**—Bids received until 2 p. m., June 10, for improvement in district 59, W. W. Bennett, auditor.

**Minn., Ortonville**—Bids received by city clerk, until 8 p. m., May 25, for laying 750 feet 8-inch tile, E. Scheibe, clerk.

#### CONTRACTS AWARDED.

**Minn., Aitkin**—Contract awarded to W. J. Gleason Co., Aitkin, at 11c a yard or about \$90,000 for county ditch 20.

**Minn., Duluth**—Contract awarded to Northern Dredge & Dock Co. for dredging lake at mouth of Octonogan river, 40,000, 19½c a yard.

**Minn., Ellendale**—S. A. Briggs, Omaha, Neb., who has contract at \$20,900, for ditch to drain Mule Lake, territory, will arrive next week with machinery and workmen for day and night shifts; time limit 6 months; tile contract to B. L. Davidson, Forest City, Iowa, about \$10,000.

**Minn., Winona**—Contract awarded to La Crosse Dredging Co., at \$10,000 for fill, Lake Winona wagon bridge.

**Neb., David City**—Contract awarded to I. E. Doty for digging large ditch in Polk county.

**Neb., Osceola**—Contract awarded to Wood, Bancroft & Doty, low bidders for ditch 3.

## ☐ WATER WORKS ☐

*Notes arranged alphabetically by States.*

**\*Iowa, Iowa City**—G. W. Schmidt, chairman of fire and water committee recommended the purchase of a motor-driven fire pump for the city.

**Iowa, Sigourney**—Water mains will be extended.

**Iowa, Valley Junction**—Following bids received for construction of water works system: Des Moines Bridge & Iron Co., \$32,454 (awarded); Katz Construction Co., Omaha, \$33,333; T. C. Brooks & Sons Co., Jackson, Mich., \$33,600; W. D. Lovell, Minneapolis, \$33,635; Alamo Engine & Supply Co., Omaha, \$33,900; Bash & Gray, Joylin, Mo., \$34,100; Rock Island Bridge & Iron Works, Rock Island, Ill., \$34,000; Inter Mountain Bridge & Construction Co., Tecumseh, \$34,176; J. W. Turner Improvement Co., Des Moines, Iowa, \$34,300; C. W. Rowland Co., \$35,315, Des Moines; The Moffit Co., Des Moines, \$35,600; Iowa Engineering Co., engineers, Clinton, Iowa.

**\*Minn., Biwabik**—Citizens demanding better water works system; write Mayor Richards.

**Minn., Litchfield**—Minneapolis Steel & Machinery Co., Minneapolis, are making plans for a steel tower and tank for local water works system. Bids opened May 25. Estimated cost, \$5,000.

**Minn., Paynesville**—Village council will meet May 23, to consider plans and specifications for a water tower and tank. The tower will be 100 to 175 feet high, and the tank is to be about 50 or 75,000-gallon capacity; special election will be called June 1, to vote on bond issue for the above tower to the amount of \$5,000; firms are invited to send representatives.

**\*Minn., Spooner**—Bonds for \$10,000 will be issued for building water system pumping station, stand pipe and machinery; H. C. Hanson, clerk.

**Mont., Billings**—Unless Montana Water Co. accepts the offer of \$315,000 made by city council for its plant and business the city will proceed with construction of a \$575,000 plant.

**Neb., Palmyra**—Bonds for \$10,000 were voted for construction of an electric light plant.

**Sask., Kindersly**—The town is making preliminary surveys for a reservoir, estimated cost \$125,000; operations to be commenced next year.

**Wash., Pullman**—Water works system will be enlarged; cost \$20,000; L. V. Edwards, clerk.

**Wis., Sheboygan**—The Holly pump at pumping station will be equipped with a set of modern valves.

**Wis., Superior**—Residents of Elmira av. have petitioned city commission for extension of water mains.

#### BIDS WANTED.

**\*Iowa, Toledo**—Bids received 12 m., June 8, for water main extensions including two Eddy Standard fire hydrants.

**Minn., Alexandria**—Bids received by C. J. Sunblad, clerk, 7:30 p. m., June 1, for water works system as follows: pump



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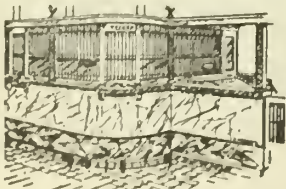
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**Minn., Blue Earth**—Bids received by Easton Floe, city clerk, 8 p. m., May 25, for construction of \$6,000 feet of water mains.

**Minn., Canton**—Bonds will be voted for a water works system.

**Minn., Deer River**—Bids received by R. F. Beall, clerk, for construction of water main No. 1, 723 feet; main No. 2, 1,036 feet; five hydrants and four shutoffs, crosses, tees and other connections. Check for one-fifth of amount of bid. Bids opened June 5.

**Minn., Hopkins**—Bids received by E. A. Close, recorder, 7:30 June 2, for laying an 8-inch water main, about 1,200 feet, 6-inch water main, 1,200 feet and two hydrants; check for 5 per cent.

**Minn., Waterville**—Bids received by A. W. Knaak, city clerk, until 8 p. m., June 12, for putting in water works system; J. A. Rowat, consulting engineer, Willmar, Minn.; check 15 per cent; officially advertised in this issue of the Improvement Bulletin.

**Neb., North Loup**—Bids received by C. O. Earnest, clerk, 2 p. m., May 29, for furnishing and constructing a combined water works and electric light plant; check for 5 per cent; Bruce & Standeven, engineer, Omaha.

**Neb., Pearce**—Bids received by R. M. Powers, clerk, 6 p. m., May 27, for laying 480 feet of 4-inch cast iron water mains, two hydrants and all necessary fittings; check for 10 per cent.

**S. D., Deadwood**—Bids received by K. W. Trimble, city auditor, 7:30 June 1, for construction of concrete water tank.

**S. D., Lake Norden**—A municipal water works system will be installed, estimated cost \$5,000.

**Wis., Appleton**—Bids received until 9 a. m., June 10, for construction of steel tank and steel tower for water system, 500,000 gallons. F. L. Williams, city clerk. Estimated cost, \$25,000.

#### CONTRACTS AWARDED.

\***Minn., Ivanhoe**—Contract let to Brown & Sonderby of Tyler for water mains.

\***Minn., New Ulm**—Contract for water reservoir awarded to Circular Construction Co., for \$5,300.

**Minn., Preston**—Contract to Wm. C. Fraser, St. Paul, for extension of water mains. B. R. Daurkon, recorder.

**N. D., Valley City**—Contract for water system to Haggart Construction Co., Fargo.

\***Wis., West Salem**—Contract to J. H. Gilfillan & Son for water main extensions.

## THEATRES AND HALLS

*Notes arranged alphabetically by States.*

**Iowa, Coggon**—Board of directors of Coggon Opera House Co. have purchased site for proposed \$7,500 opera house.

**Iowa, Dubuque**—Bids to be called for at once for Elks' club and specifications having been completed.

**Iowa, Marshalltown**—Contract to Loswell & Burgher Bros., Hannibal, Mo., for Y. M. C. A. building; cost, including site, \$85,000, brick.

**Iowa, Wapello**—Committee appointed of which O. B. Hixon, is chairman, to confer with Fred Keck relative to proposed theater building; Mr. Keck's plans are for building, 40x90, 400 seats on main floor, 200 in balcony; side walls of tile, front of pressed brick.

**Minn., Anoka**—Plans drawn for open-air theater to be erected at Anoka and work is rushed, according to T. P. Giddings, supervisor of music in the Minneapolis school, a resident of Anoka. The theater is to resemble on a smaller scale the great Greek theater at Berkeley, Cal.; concrete, concrete seats; the project in hands of Anoka park board, of which Mr. Giddings is an advisory member.

**Minn., Breckenridge**—Haxby & Gillespie, architects, Fargo, N. D., will prepare plans for a fraternity hall, \$20,000; 44x133, 2-story, pressed brick and modern.

**Minn., Willmar**—Olin H. Round, architect, St. Paul, Minn., has been going over the plans for the Elks' hall with the building committee.

**Neb., Ainsworth**—Odd Fellows completing plans for a hall.

**Neb., Long Pine**—Work begun on the theater building; address the mayor for information.

**N. D., Mandan**—German Verein club will build a new home.

**S. D., Beresford**—The Masonic lodge has bought the Carlton building and will remodel it into lodge home.

**Wis., Kewaunee**—Anderson & Williams, architects, Green Bay, have prepared plans for a \$10,000 theater here for the Turners' society; brick, 2-story, 50x100, steel trusses and beams, common and hollow brick, steam heat, electric light, composition roof, patent and ornamental plaster; contract not let.

**Wis., Milwaukee**—Miller Brewing Co. will erect a moving picture theater to seat 1,000; ground dimensions will be 150x150, two stories, 13 stores; cost estimated at \$125,000; G. W. William will erect a movie showhouse at Wells and 21st sts. to cost \$17,000.

**Mont., Red Lodge**—O. C. Oehme, architect, will modify plans of new Elks' home to bring down the cost, recent bids having been too high.

**Mont., Shelby**—The National guards will erect an armory.

#### CONTRACTS AWARDED.

**Iowa, Clear Lake**—Contract to Geo. Peterson, city, for the Stevens brick building, to be used exclusively for picture shows.

**Minn., Hopkins**—Contract to Henry Westmark for the new theater to be erected by Jack Shonka; 26x125, 18-foot ceiling, seat 470.

**Minn., Sauk Center**—Contract for opera house let to Madson Bros., Minneapolis, total cost to be about \$22,000; plans somewhat modified from those originally proposed.

**Neb., Lehigh**—Contract to Henry Kemper for addition to the Odd Fellows' hall.

**S. D., Watertown**—Contract to Gray Construction Co. for the new Masonic temple to cost \$60,000.

**Wis., Elkhorn**—Contract with Morrissey Bros. for mason work on Masonic temple; Elkhorn Lumber Co. will furnish lumber and mill work and Chas. C. Hotchkiss will install heating and ventilating equipment.

**Mont., Moccasin**—Contract with Jack Bauer for theater building, 24x80, 2-story.

## HOTELS AND HOSPITALS

*Notes arranged alphabetically by States.*

**Iowa, Ridgeway**—The Avery Steel & Iron Co., of Minneapolis are furnishing the iron work for the Norwegian Lutheran church; J. E. Nason, architect, John Skoolheim, contractor.

**Minn., Bemidji**—Tams Bixby has been asked if he would give site and \$1,000 for a summer hotel at head of lake if city will raise \$4,000 to complete the building; Bixby's former proposition was for a \$10,000 structure.

**Minn., Clear Lake**—Hotel owned by Mrs. Ingar Anderson burned; loss \$3,000; insured for \$2,000; will probably not rebuild.

**Minn., New Richland**—Preliminary steps taken for modern hotel; H. E. Johnson appointed to negotiate for site, etc.

**Minn., Red Wing**—It has been decided to go ahead with the proposed Goodhue county tuberculosis hospital without waiting further for action by Rice county; cost \$20,000; E. H. Sund, architect, Minneapolis.

**Minn., Sauk Rapids**—Commercial club interested in erection of hotel here, site selected, details still to be worked out.

**Minn., Thief River Falls**—Joseph Juneau will build hotel on Atlantic av.; 3-story, modern.

**Mont., Lewistown**—Slater Bros. will erect 4-story building to cost \$50,000 to be used as a hotel.

**Mont., Miles City**—Plans prepared by B. Rivenes, city, architect, for 2-story brick apartment house, 13-rooms, \$20,000; Jas. Hunter, owner.

**Mont., Stillwater**—Stockholders of the proposed hospital, incorporated for \$15,000 to build the Stillwater hospital; site has been donated; Geo. A. Westover, chairman board of trustees.

**N. D., Napoleon**—Hotel property will be remodeled by Mr. House, owner; steam heat, gas, etc.

**Wis., Shawano**—A. N. Hazeltine may build a hospital.

#### BIDS WANTED.

**Iowa, Muscatine**—Expected bids will be received by May 20 for hotel building; plans by Paul V. Hyland, Chicago.

**Mont., Billings**—Bids being received for county detention hospital, \$15,000; Link & Haire, architects.

**Mont., Dodson**—Bids being received by David V. Dutro for a 3-story brick hotel.

#### CONTRACTS AWARDED.

**Minn., Chisholm**—Contract to Banks, Peterson & Co., for fencing new detention hospital and park for sum of \$1,600; also given contract for new furniture for \$550; new bids ordered to be asked for on interior decorating, owing to an error; low bidder wanted \$385.

**Minn., Keewatin**—Contract to Tomlinson & Egan for a 2-



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story brick hotel for James Theodore, 16 rooms, cost \$20,000; bar, restaurant, and lobby on first floor.

**Neb., Alliance**—Contract let at once for remodeling brick building for hospital, 2-story and basement; Dr. H. H. Bellwood and Dr. Hand, owners.

**Neb., Norfolk**—Contract with W. E. Orr and Sobert H. Reynolds for the new general hospital.

**S. D., Sioux Falls**—Contract to J. B. Nelson, Mankato, Minn., for addition to Hotel Carpenter, to cost \$25,000.

**Wis., Menomonie**—Lowest bidder for the new hospital was Sever Olson, city, at \$15,745 for building as a whole, and it is assumed he will secure contract.

**Wis., Tomahawk**—Contract to M. Patier, city, for tuberculosis camp at \$8,000.

## MILLS AND FACTORIES

*Notes arranged alphabetically by States.*

**Alta., Medicine Hat**—Construction will commence at once on the \$1,000,000 flour mill here for Maple Leaf Milling Co.

**Sask., Saskatoon**—New bids will be called for on plant of the Saskatoon Cold Storage Co.

**Iowa, Boone**—A corporation known as the Boone Cereal Mill has been formed and will install new mill.

**Iowa, Marshalltown**—Bogardus Co. of Chicago, will install a factory here; capital \$50,000.

**Iowa, Waterloo**—Fire damaged the Cement Product Co.'s factory about \$1,000; J. H. Stewart, president.

**Minn., Aurora**—Special election soon to vote on bonds for \$20,000 for an electric light plant; an additional dynamo will be added to the present plant this summer.

**Minn., Clinton**—Otter Tail Power Co. applied for a franchise to furnish electric lights for this town; H. A. Hewitt, recorder.

**Minn., Crookston**—Crookston Cordage Co. will build a factory; incorporated at \$75,000.

**Minn., Little Falls**—Little Falls Darling Gas Co. asks permit to erect a gas plant here; Frank E. Hall, president council.

**Minn., Minneapolis**—Local men will build a modern flour mill, Fendall G. Winston, financier, J. C. Andrews, Pillsbury Flour Mills interested; 6-story; cost about \$100,000; brick walls and interior; James Leck & Co., contractors; 42x135, two engine rooms 80 feet long.

**Minn., Oak Park**—Oak Park Co-operative Creamery association filed articles of incorporation, will build new creamery; cost \$4,000; A. T. Lund president, Chas. Swanson, vice president.

**\*Minn., Stillwater**—A machinery shop of the David Tozier Co., S. Stillwater burned.

**Mont., Ft. Benton**—Plans discussed for local flour mill; L. D. Sharp, chairman, F. A. Flanagan and others committee.

**Mont., Great Falls**—G. E. Oshin received permit for a 3-story frame milling plant, \$1,600.

**Mont., Harrison**—Nelson J. White states that plans are completed for a new flour mill here.

**Neb., Fremont**—Plans for an immense centralized co-operative creamery, are being drawn up by the executive board of Nebraska Farmers' Co-operative union; capitalized at \$50,000.

**Neb., Omaha**—Excavation has started for the Almino creamery plant, contract let on commission basis to Wm. Dedgwick, 2-story and basement, plate glass front, shower baths, modern throughout; cost about \$90,000; a new ice plant will be installed in connection.

**N. D., Williston**—A new electric road is planned from here to the southwestern corner of Divide county.

**Sask., Regina**—Alex Harrison, builder and contractor, of ice factories and cold storage plants has announced his intention of erecting a plant here \$50,000.

**S. D., Spearfish**—Bids for creamery building, opened, contract not awarded.

**Wis., Antigo**—Vincent Wolfst is building a 2-story frame building for manufacturers of builders' supplies.

**Wis., Appleton**—Plant 36x100, 2-story will be built by the Carson-Rowell Co.

**Wis., Beaver Dam**—Kerosene Power Co. of Minneapolis, a \$100,000 concern, contemplates locating plant; write, president Commercial club here.

**Wis., Grand Rapids**—The North Hanson Dairy association has been formed and will erect a cheese factory; Fred Erdmann, president, Wm. Schmuhl, vice president.

**\*Wis., Iron River**—Fire destroyed the sawmill of Kopplin & Kopplin.

**\*Wis., Kenosha**—Plant of the Vincent-Alward Co., damaged by fire about \$2,500.

### CONTRACTS AWARDED.

**Minn., Dassel**—General contract let to H. E. Swanson, Das-

sel, Minn., for creamery building, of Knapp Creamery association; brick and tile, brick contract to Twin City Brick Co., work started.

**\*Minn., Loretto**—Contract awarded to Albert Boerner, Buffalo, Minn., for Loretto Progressive Creamery Co. plant; \$5,543.

**Mont., Lewistown**—Contract for lighting system let to Veley Construction Co., Livingston, \$15,000.

**Neb., Plattsmouth**—Contract awarded to J. H. McMaken, this city for an artificial ice plant.

**\*Wis., St. Cloud**—The Klinzing Manufacturing Co., city, has closed contract for new plant, at New Holstein, Calumet county, 75x100, concrete brick and steel; cost about \$15,000; work to start in about 6 weeks.

## PUBLIC BUILDINGS

*Notes arranged alphabetically by States.*

**Alta., Edmonton**—Permit has been taken out for construction of a new building on the university of Alberta grounds.

**Iowa, Fort Dodge**—John F. Ford, mayor, has been in Des Moines looking over plans for the proposed \$100,000 city hall, bonds for which will be voted on in June.

**Iowa, Monticello**—Local telephone system will be rebuilt, cost, \$30,000; Gen. H. A. Allen, Lanigan building manager.

**Iowa, Rockwell City**—Contract with Paul M. Seifert, Boone, for decoration of new Calhoun county court house.

**Minn., Hibbing**—Site has been purchased for proposed municipal and district court house and jail for the sum of \$16,000, 4 lots.

**Minn., Mentor**—Thos. Vollom of this city says the Garden Valley Telephone Co. will build to Red Lake Falls this summer.

**Minn., Moorhead**—Plans by A. J. Fridlund, architect, for the new city jail approved by board of control.

**Minn., Virginia**—J. F. Druer of the Claussen Engineering Co., St. Paul, Minn., estimates that the proposed municipal heating system will cost from \$30,000 to \$50,000.

**Neb., Donnebrog**—The town of Boelus, (not P. O.) has voted to build city hall; address town clerk, at Donnebrog.

**Neb., Elba**—Committee appointed to see about building a new jail; address village clerk.

**Neb., Elk Creek**—J. H. Keim has contract for jail, brick and concrete, 12x14.

**N. D., Cooperstown**—Special election June 5, to vote on \$2,500 bonds for a site for a public gymnasium; G. B. Edmondson, city auditor.

**Neb., Obert**—A new jail is being built here; address village clerk.

**N. D., Halliday**—A public hall is to be built here, 24x70; address the mayor.

**N. D., Tower City**—Aiken & Bartlett, Fargo, have prepared plans for electric light, heat and power plant for this city.

**N. D., Wahpeton**—Low bidder on U. S. postoffice was Eugene Schuler, Pasadena, Cal., at \$1,000.

**S. D., Britton**—Carnegie Foundation will furnish funds for a library when city takes the proper steps; address city clerk.

**S. D., Sioux Falls**—Col. T. H. Brown has started a movement for lighting system in business district.

**S. D., Wessington Springs**—Schuler Electric Light Co. of Woonsocket bought local electric light plant.

**Wis., Beldenville**—H. O. Junkman is agitating the question of electric light for this place.

**Wis., Bryant**—Fire destroyed Woodman hall; loss \$1,800, insured for \$1,200.

**Wis., Chippewa Falls**—Knights of Columbus raising funds to build hall to cost \$30,000; J. B. Piotrowski for particulars.

**Wis., Durand**—Court house and jail are to be repainted; address Geo. W. Kees, supervisor.

**Wis., Green Bay**—Council is considering building a fire hall; address city clerk.

**Wis., Iron River**—The village and township will build town hall to cost \$50,000; address village clerk.

**Wis., Marinette**—Mayor Fisher has appointed a committee to take up the matter of street car extensions to city park.

**Wis., Portage**—Several extensions of city car lines are contemplated this season.

**Wis., Sheboygan**—Council decided to go ahead with plans as prepared for city hall; address city clerk.

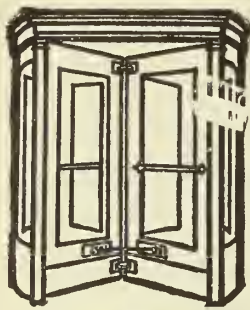
### BIDS WANTED.

**Alta., Ponoka**—Bids received by John Stocks, deputy minister public works, Edmonton, Alta., until June 1, for dormitory building for Provincial asylum.

**Alta., Provost**—Bids received by L. H. Meikeljohn, secretary-treasurer, until June 1, for fire hall; check 10 per cent.



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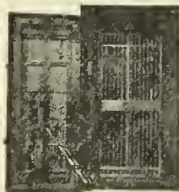
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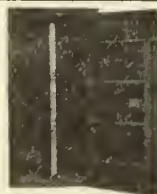
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**Iowa, Cresco**—Bids received by C. W. Reed, chairman, building committee, until 7 p. m., June 9, for a brick and stone library building; check \$200; officially advertised in this issue of the Improvement Bulletin.

**Man., Melita**—Bids received by P. C. Desrochers, secretary department public works, Ottawa, Can., until June 4, for construction of public building.

**Man., Winnipeg**—Bids close June 8, for north drill hall, brick; C. J. Brown, city clerk.

**Minn., Minneapolis**—Bids received by O. Wenderoth, supervising architect, Washington, D. C., until 3 p. m., June 10, for special lighting fixtures for the new postoffice.

**Minn., Olivia**—Bids will be called for in about 25 days for figures on an armory; 65x120, 3-story, brick, \$25,000; C. L. Grover, architect, Zumbrota; concrete foundation, mat face and common brick, granite, asbestos built-up roof, brick cornice, d. s. glass, steam heat, maple and fir flooring, fir interior finish, boilers, two bath rooms, electric lights, hollow tile, iron beams and columns plumbing, tiling.

**Minn., St. Cloud**—Bids received by Geo. G. Magnuson, city clerk, until 3 p. m., June 23, for competitive sketches for city hall, fire house and jail; officially advertised in this issue of the Improvement Bulletin.

**Mont., Columbus**—Bids received by Lloyd B. Barley, county clerk, until 3 p. m., June 2, for a vault to be built as an addition to the court house building, 9x16x7, reinforced concrete walls and roof; check for \$300.

**Mont., Havre**—Bids received by E. C. Carruth, clerk, until 8 p. m., May 26, for excavating basement for addition to the high school.

**S. D., Clear Lake**—Bids received by T. L. Vought, city auditor, until 8 p. m., June 1, for city hall; check \$500.

**S. D., Tyndall**—Bids received by C. E. Stoddard, county auditor, until 10 a. m., June 9, for (1) the metal furniture, fixtures and equipment of the Bon Homme county court house; (2) the wood furniture, fixtures and equipment; (3) the interior decorating; Jos. Schwartz, architect, Sioux Falls, S. D.; sum set apart for the wood furniture is \$4,000 and for the decorating; check for 5 per cent.

**Wis., Beaver Dam**—Bids received by Wm. H. Hall, secretary, until 7:30 p. m., May 29, for toilets and plumbing in 2d district building; check 5 per cent.

**Wis., Peshtigo**—Bids received by Elwood N. Wazek, city clerk, until May 29, for jail building; plans by Fred Hansen.

**Wis., Plymouth**—Word received from Carnegie Foundation that \$10,000 will be given to city for library building; Jay Eastman, clerk, library board.

#### CONTRACTS AWARDED.

**Iowa, Dubuque**—Contract with Jas. Kane, local, for building at the county farm at Julien at \$1,440.

**Mont., Dillon**—Contract to W. C. Reed, city, for city hall at \$27,900.

**Mont., Missoula**—Contract on fair grounds buildings awarded to J. F. Harrington, E. S. Newton and Davis Graham at \$18,221; Harrington got the grandstand at \$10,472; Graham the barns at \$7,547; and Newton the judges' stand at \$202.

**Neb., Broken Bow**—Contract with the Stewart Iron Works, Cincinnati, Ohio, for the equipment of the county jail at \$3,859; the bid of the Pauly Jail Co., of St. Louis was, \$4,585.

**Neb., Crawford**—Contract to Miller & Roselins, Falls City, for new city hall at \$15,000; brick must be local.

**Neb., Falls City**—W. O. Roselius, who has the contract for the new city hall, has begun work of construction; one of the stipulations is establishment by him of a brick kiln here.

**\*Neb., Springview**—Contract awarded to O. E. Shipley, Springview, for new court house, at \$15,400; bids was let in March, building to be of cement brick; O. E. Shipley, architect and contractor.

**S. D., Tyndall**—Contract for electric light fixtures and wiring in new county house to C. E. Jones, city.

**Wis., Elkhorn**—Contract to Morrissey Bros. for the mason work for the new Masonic temple, Hotchkiss, that for heating and ventilating, Elkhorn Lumber Co. for lumber and mill work; carpentry not let.

glass, maple floors, yellow pine finish; bids taken by architect in about 15 days.

**Iowa, Hawkeye**—Plans prepared by Henry E. Netcott, architect, Independence, Iowa, for a 2-story brick school building, 36x70; cost \$15,000, iron joist hangers, reinforced concrete, fireproofing, lime cut stone, common, pressed and hollow brick, steam heat, electric light, sheet metal ceiling, wood or asbestos shingle roof, hard plaster board, plate, prism glass, slate board, oak finish; bids taken soon by owners, date not set.

**Iowa, Hazelton**—Henry E. Netcott, architect, Independence, Iowa, prepared plans for a 2-story brick school building, 50x75, cost \$17,000; steel beams, iron joist hangers, reinforced concrete fireproofing, lime cut stone, common, pressed and hollow brick, steam heat, sheet metal ceiling, wood sash and frames, wood and shingle roof, plaster board, metal lath, plate and prism glass, slate black board, oak finish; ready for bids in 30 days; taken by owner, board of education.

**Minn., Benton County**—District No. 14, 1-room frame school house, without basement; clerk Geo. DeLong, R. R. 2, Foley, Minn.; approved by the state commissioner.

**Minn., Dundas**—Fire destroyed the school building here, insured at \$5,000.

**Minn., McGrath**—Six districts embracing seven schools in vicinity of McGrath, voted to consolidate and build a graded school here.

**Minn., Minneapolis**—Grant School, addition to and heating and ventilation of; according to plans and specifications submitted by Stebbins & Haxby, architects, Minneapolis, Minn., and W. K. Robertson, engineer, Minneapolis; plans and specifications approved by state commissioner.

**Minn., Red Lake County**—District 14; 1-room frame school house without basement; clerk, J. H. Davis, Erskine, Minn.; approved by state commissioner.

**Minn., Solana**—A \$10,000 consolidated school building will be built here; contract let to Louis Johnson of Aitkin heating, plumbing, etc.

**Minn., St. Cloud**—Bonds for high school building will be voted June 5.

**Mont., Coffee Creek**—Local school board has decided on plans for proposed school.

**Mont., Helena**—Plans for the Central school building adopted, will build a 2-story addition, reinforced concrete; cost about \$500,000, modern throughout; plans by architect Geo. H. Carsley, board has also decided to complete the Bryant school building.

**Mont., Laurel**—Glen McAllister, architect, Billings, is preparing plans for a modern school gymnasium, 1-story, brick with terra cotta trimmings; cost about \$25,000.

**Neb., Ansley**—Janesville rural school district has voted \$3,000 new building.

**Neb., Cedar Bluffs**—Vote carried for high school building.

**Neb., Winnetoon**—Plans prepared for brick high school, bids taken soon.

**S. D., Henry**—Plans prepared by A. H. Shultz, architect, Watertown, S. D., for a public school building, 52x80; cost \$22,000; matt brick, asbestos shingles, steam heat, boilers, blackboards, electric lights, motor, metal lath, plumbing, ventilators; plans on file at Builders' Exchange St. Paul, Minn.; contract to be let about June 13.

**Wis., Arpin**—At a special meeting \$5,000 voted to build a 2-department school house.

**Wis., Gleason**—Plans prepared by architects, William & Anderson, Green Bay, for a 2-story brick school; steel trusses and beams, common pressed brick and hollow; cost \$25,000.

**Wis., Stockbridge**—A new school will be built by the Catholic congregation; cost about \$11,000; plans being prepared for building and contract awarded soon, Rev. Joseph A. Marx, secretary.

**Wis., Superior**—Permit granted for construction of building for normal school, \$175,000, 3-story, reinforced concrete and brick, fireproof.

#### BIDS WANTED.

**Iowa, Valley Junction**—Bids received until June 2, 1:30 p. m., for school building, Raaz addition to valley junction; plans by Proudfoot, Bird & Rawson, architect, 810 Hubbell building, Des Moines, Iowa; check \$750; plans with secretary, Des Moines school board; A. L. Clinite.

**Iowa, West Liberty**—Bids received until 8 p. m., June 13, for a new school district No. 9, of Springdale and Iowa townships; plans at residence of F. D. Ridenmour, secretary; check \$150.

**\*Minn., Melrose**—Bids received till 7:30 p. m., June 17, for 18-room school; see official advertisement this weeks Improvement Bulletin.

**Mich., Dollar Bay**—Bids received until 3 p. m., June 2, for a high school building, separate bids desired on following: general construction, heating, plumbing, vacuum cleaning in one or separate, electrical work; plans on file with architect,

## SCHOOLS

**B. C., Vancouver**—Plans are being prepared by superintendent of schools for a 3-story reinforced concrete school building, \$100,000.

**Iowa, Arnolds Park**—Citizens voted \$35,000, bonds for school.

**Iowa, Farmersburg**—Plans for a 2-story brick school, 65x40, prepared by Henry E. Netcott, architect, Independence, Iowa; cost \$10,000, steel beams, iron joist hangers, lime cut stone, common brick, steam heat, electric lights, sheet metal ceiling, wood or shingle roof, common plaster, plate and prism



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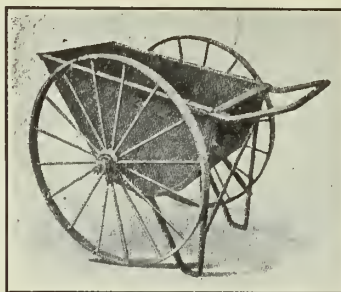
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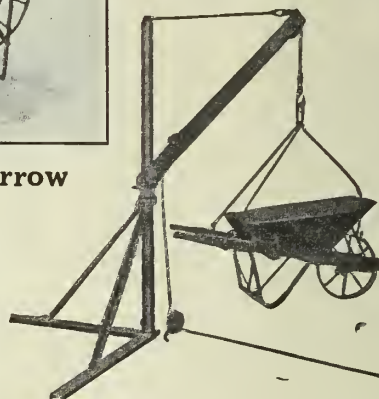
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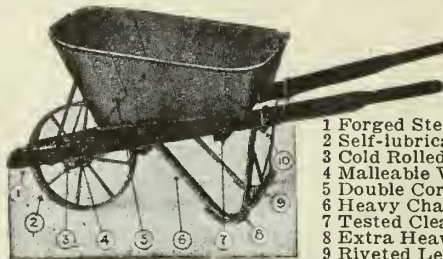


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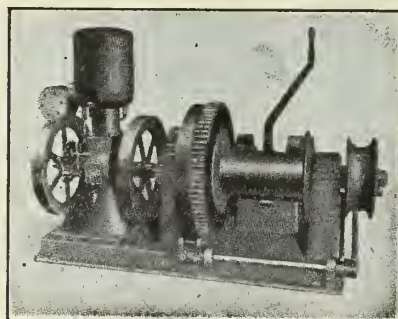
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- 5 Double Cornered Riveted Trays
- 6 Heavy Channel Steel Legs
- 7 Tested Clear Maple Handles
- 8 Extra Heavy Leg Shoes
- 9 Riveted Leg Braces
- 10 Patented Handle Clamps

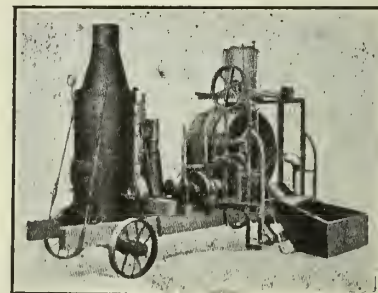
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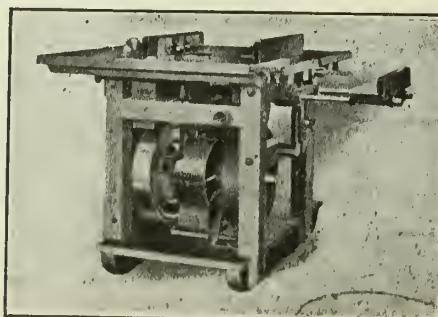
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Derrick Hubert, suite 5, Spies building, Menomonie, Mich., Wm. H. Harris, secretary; officially advertised in the Improvement Bulletin this week.

**Minn., Ely**—Board of education has advertised for bids on 24-room, grade school district No. 12, separate bids received on following: main building; boiler house, stack and subways complete; plumbing, heating and ventilating; electric system; vacuum cleaning system; bids to be opened June 1.

**Minn., Henning**—Bids received until May 25, for equipment of basement school, in Oak Knoll school district No. 123, township Henning; check \$100; J. H. Brutlag, district clerk.

**\*Minn., Le Sueur**—Bids received till 2 p. m., June 9, for school and sisters' residence by trustees of Church of St. Mary; H. C. Gerlach, architect, Mankato. Officially advertised in this issue of the Improvement Bulletin.

**Minn., Pillager**—Bids received until 4 p. m., May 29, for heating, ventilating and plumbing in school building, separate bids on each; plans with clerk C. D. Bacon, or office of Howard Parsons, architect, 601 Phoenix building, Minneapolis, check 5 per cent.

**Minn., Sherburn**—Bids received until 8 p. m., May 29, for installation of Moline vacuum vapor heating and ventilating plant in school district No. 68; also bids for plumbing; separate bids on each; plans at office of secretary D. M. Reynolds, Sherburn, Builders' Exchange; check for 5 per cent.

**Minn., St. Francis**—Bids received until 1 p. m., May 22, for heat and ventilating system in school building; plans at office of clerk; F. E. Vrooman, district 12; check 5 per cent; Kirby T. Snyder, architect, 751 Plymouth building, Minneapolis.

**Minn., St. James**—Bids received until 8 p. m., June 12, for an addition to high school, separate bids desired on general construction, heating, ventilating and plumbing, electric wiring; check 5 per cent; plans at Minneapolis Builders' Exchange, architect F. E. Halden, Kasota building, Minneapolis; officially advertised in the Improvement Bulletin this week.

**Nebr., Benson**—Bids received until 4 p. m., May 22, for a school here; plans by architect F. W. Krelle, Omaha National Bank building; check \$200; plans at office of architect or secretary, board of education, E. E. Bon, 3404 N. 6th st., Benson.

**Nebr., Guide Rock**—Bids received until June 1, 2 p. m., for a school in district No. 87; plans with Geo. Nelson; W. M. Hiatt, secretary.

**N. D., Napoleon**—Bids received until 2 p. m., June 9, for school building, plans at office of Stock Growers' Bank, Napoleon, N. D.; check for \$50; John Franz, clerk, Streeter, N. D.

**Sask., Meota**—Bids received until May 26, for a school building, Stevenson, Evans & Fillingham, North Battleford, architects.

**Wis., Sister Bay**—Bids received until May 30, for a new school in district No. 2, Liberty Grove; plans at office of district clerk, John Larson, city, or at county superintendent's office, Sturgeon Bay, Wis.; address district clerk, Sister Bay, for further information.

#### CONTRACTS AWARDED.

**Iowa, Denison**—Contract awarded to A. A. Christensen, Denison, Iowa, for boiler house, etc., in Central school building, at \$5,799; bids on heating and plumbing, G. M. Bradley, Carroll; B. Grundwald, Omaha, \$6,108; Kadoch & Buckley, Denison, \$7,149; Frank P. Bolton, Denison, \$4,255, awarded; building, Fee & Kobler & Schult, Denison & Carroll, \$4,350; Herman Erill, Denison, \$6,502.

**Iowa, Missouri Valley**—The Western Construction Co. have received contract for \$40,000 school house at Norwood.

**Iowa, Turin**—Contract awarded to Fred Knudsen, Turin, for addition to public school, at \$2,429; other bids were: I. E. Nobel, Onawa, Iowa, \$2,950; T. F. Whitmore, Onawa, \$2,676; E. Larson, Onawa, \$2,619; M. L. Davis, Morehead \$2,478; F. E. Colby, architect, Sioux City, Iowa.

**Minn., Eveleth**—Contract awarded to Theo. Nauffts, Duluth, for new technical high school, at \$39,000; plumbing contract awarded to D. R. Black, Duluth, at \$3,000.

**Minn., Hibbing**—Contract awarded to Michael Gleason of Hibbing for painting interior of new addition to school at \$400.

**Minn., Waseca**—Contract awarded to T. W. Glines, for painting the brick school at \$499, to be finished by Sept. 1.

**Nebr., Exeter**—Contract awarded to Harvey E. Wood for school.

**Nebr., Madison**—Contract will be let for new high school here about May 19, by board of education.

**Nebr., Maskell**—Contract awarded to Chas. Severson for excavating for school.

**N. D., New Rockford**—Contract awarded to Burton & Burton, city for a consolidated school building in Columbia district at \$3,015, modern throughout.

**N. D., New Salem**—The Avery Steel & Iron Co., of Minne-

polis, have the contract for the structural iron work and the fire escapes, for the addition to the public school building, A. Van Horn, architect, Peter Bumann, contractor.

**Wyo., Worland**—Contract awarded to W. E. Ashton, of Denver, Colo. for industrial school buildings here.

## CHURCHES

*Notes arranged alphabetically by States.*

**Iowa, Terrill**—Earl Dana received contract for excavation of new M. E. church.

**Iowa, Van Wert**—Members of Christian congregation will build church.

**Minn., Chisholm**—Members of the Scandinavian Lutheran church will build a new church; cost about \$5,000; Gust Anderson, Osman Abby and others, committee.

**Minn., Parkers Prairie**—The Congregation of Emanuels' German Lutheran will build a church, 36x56, cement basement, stained glass windows, bell tower, 90-foot, superstructure, frame with plastered walls and steel ceiling.

**Mont., Roundup**—Rev. Anshutz is making preliminary arrangements for construction of a church here.

**Nebr., Burwell**—Plans for new church are being drawn by architect J. H. Craddock, Omaha, pressed brick with Bedford stone trim.

**Nebr., Doniphan**—Plans for M. E. church are in progress.

**Nebr., Dwight**—A new Catholic church will be built here soon.

**Nebr., Florence**—The First Presbyterian church propose to build a new edifice; cost \$8,000; brick.

**S. D., Viborg**—The Danish Lutherans will build a \$4,000 church, under supervision of Rev. Soe.

**S. D., White River**—Arrangements are being made to erect a new church here.

**S. D., Yankton**—Members of the 2d Baptist church are raising funds for a new church.

**Wis., Madison**—Church will be erected by the Episcopal congregation, St. Andrew's, Spooner st., Arthur Peabody, R. C. Smith and others interested.

**Wis., Sheboygan**—Ebenezar German Reformed congregation will build a chapel; cost about \$5,000.

#### BIDS WANTED.

**Iowa, Kingsley**—Congregational church propose to remodel their church; bids received for same May 22, 12 m.; plans with Wm. Gilmour, member of committee.

**Iowa, Roland**—Bids received until June 1, for a brick church, for particulars regarding plans, etc., write architect Hereim, Story City, Iowa or J. H. Larson, Roland, Iowa.

**Minn., Springfield**—Bids received till 7 p. m., June 15, for brick and stone church, by Rev. H. P. Fey, pastor, Springfield; official advertisement in the Improvement Bulletin this week; Parkinson & Dockendorf, architects, La Crosse, Wis.

**Nebr., Wahoo**—Bids received until May 20, 1 p. m., for a Lutheran church at Malmio; plans on file at Helsing & Helsing drug store, Wahoo; J. E. Olson, secretary.

#### CONTRACTS AWARDED.

**Minn., Dawson**—The Avery Steel & Iron Co., of Minneapolis, have the contract for the iron work for the Hague Lutheran church, Albert Bjoraas, contractor.

**Minn., Fairfax**—Contract awarded to local contractor, J. M. Hinderman, for rebuilding and enlarging M. E. church; pipe organ, full basement, modern, steel and asbestos shingles, steam heat, oak finish, faced brick exterior.

**Minn., Gentilly**—Contract awarded to A. F. Cavanaugh, Crookston, for steam heating plant in the Catholic church.

**Mont., Missoula**—Contract awarded to J. G. Ambrose, Missoula, for remodeling Episcopal church, at \$6,880; other bids were: E. S. Newton, Missoula, \$8,515; Geo. H. Pew, Missoula, \$7,794; Ole Bakke, architect.

**N. D., Ryder**—Contracts for Presbyterian church building were let as follows: Syver Shervheim, general structure, Spence Officer, excavation of basement, Bovey-Shute Lumber Co., lumber; cost about \$3,000.

## PARKS AND CEMETERIES

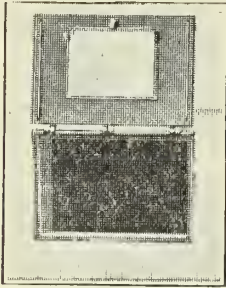
*Notes arranged alphabetically by States.*

**Minn., Eveleth**—\$20,000 has been appropriated for improvements in parks this season.

**Wis., Fenimore**—Land purchased from Robert Glenn and others will be improved and made into a park called Marquette.



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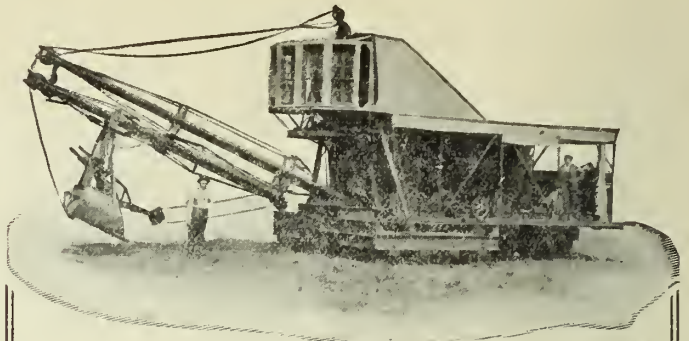
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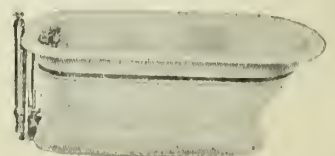


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## ELEVATORS

Notes arranged alphabetically by States.

**Iowa, Aredale**—The Farmers' Elevator Co. will build a new grain elevator, contracting engineers, Burrell Engineering Co., 327 S. La Salle st., Chicago.

**Minn., Duluth**—Contract to Barnett & Record Co., Minneapolis, for rebuilding working house at the Belt Line elevator by the Cargill Elevator Co.

\***Minn., Kasota**—Sage Bros. elevator burned; loss, \$20,000; partially insured.

**Minn., Mentor**—Bids received until May 25, for renailing and painting elevator at Mentor, including lean-to and feed mill; J. O. Buhm, secretary board.

**Neb., Greeley**—Contract for farmers' elevator awarded to Van Ness Construction Co., Fairbury, Neb.; 20x24.

**Neb., Herman Grove**—The National Farmers' Union is now planning to build elevators in various part of the country.

**Neb., Riverdale**—Farmers' Co-operative Grain Co. will build an elevator here.

**N. D., Buttzville**—J. A. Rose, contractor, has contract for farmers' elevator here.

**N. D., Drayton**—Thorpe elevator wrecked and new building will be erected.

\***N. D., Gwinner**—Plans have been received for the Farmers' elevator; plans by Hickok & Son, Minneapolis, Minn.

**S. D. Armour**—South Dakota Grain Co. wrecking elevator at Parkston, S. D., to be reconstructed at new town of Beardsley, S. D., L. D. Wait, superintendent.

**Wis., Grand Rapids**—Work of wrecking the old mill, has commenced; a new warehouse and elevator will be built by the McKercher-Rossier Co., 50x148, contract let to the Burrell Engineering & Construction Co., Chicago.

## GARAGES AND BARNs

Notes arranged alphabetically by States.

**Minnesota**—Following will build garages: Biwabik—Range Motor Co. Ada—Sam Olson, steel garage. Brownville—P. Hermes, cement block.

**Minnesota**—Following will build barns. Willmar—Jonas Monson, modern. Graham—Frenk Pietron, modern. Winnebago City—Melvin Eastvold, cement basement, modern. Luverne—Elmer A. Tatge, modern. Forada—Will Strangeway, modern, dairy barn, 18 steel stalls. Minnesota Lake—W. R. Burmeister, modern. South Haven—A. Benoit.

**Wisconsin**—Following will build barns. Chippewa Falls—Albion Shaw, Mr. Rufedt, Wm. Turner, Ernest Petska. York—Henry Fox, modern. Abbotsford, Jas. Laskie, frame. De Pere—Peter Vercauteren, modern, Thomsen Bros., contractors. Tramway—Chas. Marunda, basement barn.

**Wisconsin**—Following will build garages. Shell Lake—Aug. Plahn, modern. Appleton—John Conway, steel garage.

## MISCELLANEOUS

Items marked with asterisks not in Daily Sheets.

\***Iowa, Fort Madison**—Permission has been given by the war department for building a harbor to protect launches, etc., from the high waves caused by the lake above the dam; plans call for building a continuous crib from the Santa Fe bridge east for four blocks; address city clerk.

\***Mich., Marquette**—The sum of \$300,000 has been raised in the east to build a plant at this point to reduce low grade ores by the Jones furnace method, which is being exploited by the Dell Development Co.; J. M. Longyear, Marquette, accompanied Mr. Jones to the east when the funds were secured.

\***N. D., Devils Lake**—This city may follow Grand Forks in the erection of a municipal slaughter house; address city clerk.

\***Wis., Sheboygan**—Hinze Bros. slaughter house burned, loss \$5,000.

## BIDS WANTED.

\***Minn., Granite Falls**—Bids received by H. A. Rider, game and fish commission, Capitol building, St. Paul, Minn., until 4 p. m., June 2, for a fish hatchery; check \$500.

## CONTRACTS AWARDED.

\***Iowa, Waterloo**—Contract for erection of an all steel building at Electric park, 70x90, 20 feet high, was awarded to the Decatur Bridge & Iron Works of Decatur, Ill., by the park management.

## ELECTRICAL

Notes arranged alphabetically by States.

**Iowa, Le Claire**—The Le Claire Independent Telephone Co. has installed a new switchboard.

**Iowa, Mason City**—A 25-year franchise was granted to the Peoples' Gas & Electric Co.

\***Man., Winnipeg**—Bids received by M. Peterson, 11 a. m., June 30, for supplying and installing the necessary switch boards and other apparatus for the new fire alarm office equipment.

**Minn., Bemidji**—A white way lighting system will be installed on business streets; write mayor McCuaig.

\***Minn., Chaska**—Contract for installing white way light system to N. W. Electric Equipment Co.

\***Minn., Crookston**—N. W. Telephone Co. asked permission to place underground conduits on various streets.

**Minn., Long Prairie**—A. D. Day was made chairman of the committee to secure a white way lighting system for business streets.

**Minn., Round Lake**—A transmission line will be built to this place from Worthington; write mayor Schrader.

**Minn., Westbrook**—An electric light plant will be installed by this town; J. E. Villa, K. Krueger and others interested.

\***Mont., Glendive**—Contract for plant of the Glendive Heat, Light & Power Co., to W. T. Perham, at \$15,000; General Concrete Construction got contract for smokestack.

\***Mont., Livingston**—Ornamental street lights and a fire alarm system will be installed.

**Mont., Missoula**—Council created special lighting district No. 5; objections June 17; L. E. Harris, city clerk.

**Mont., Simms**—A telephone Co. was organized and a system will be installed here at once; the country lines will build into town later.

**Neb., Cook**—Telephone Co. organized, Aug. Inde, president, J. A. Howarth, secretary.

**Neb., Greenwood**—Work on new telephone building has been started; will be 25x25, front and sides of pressed brick.

\***N. D., Ellendale**—Contract electric building for Ellendale Light, Heat & Power Co., to Carl Anderson.

**N. D., Hankinson**—Otter Tail Power Co. bought the local lighting plant and will extend its line from Fairmount.

**N. D., Minto**—Farmers have organized a telephone company and will build from here northwest along the Meridan road.

**S. D., Wagner**—Work has started on rebuilding Farm & Home Telephone building, recently burned.

**S. D., Wessington**—Council voted to install a municipal street lighting system.

\***Wis., Elkhorn**—Milwaukee Heat, Light & Traction Co. want to furnish this town with electricity.

**Wis., Lena**—Wm. Harley of this place bought the farmers' and merchants' telephone line with headquarters here.

**Wis., Marinette**—Street Railway Co. has been petitioned to extend car lines to City Park.

**Wis., Menomonie**—Three rural lines will be added to the local office of the Wisconsin Telephone Co.

**Wis., Stratford**—The Stratford Telephone Co. is building 7 miles of line in the town of Cleveland, which will connect with the Stratford line when finished.

## BIDS WANTED.

**Mont., Anaconda**—Bids received 8 p. m., June 1, for erecting and equipping posts for lights along Main and Park sts.

## CONTRACTS AWARDED.

**Minn., Madelia**—Contract to Western Electric Co., Minneapolis for white way lighting system.

**Minn., White Bear**—Contract for ornamental curb lights let to A. T. Gordanier, St. Paul, at \$2,043; other bidders were: J. S. Chisholm, White Bear, \$2,200; Adolbert Hubbard Electric Co., St. Paul, \$2,649; Pioneer Electric Co., St. Paul, \$2,150. J. E. Extrand, clerk.

## BUSINESS BUILDINGS

Notes arranged alphabetically by States.

**Alta., Pincher Creek**—Fire destroyed general store building of R. W. Morgan, may be rebuilt.

**Iowa, Belle Plaine**—Fire destroyed Boston department store, loss \$19,000.

**Iowa, Clarion**—Reed & Malaise of Woolstock have begun work on store; cement and brick; basement.

**Iowa, Council Bluffs**—The Nebraska Cycle Co. will remodel the Beno building, new front, modern throughout.

**Iowa, Dougherty**—J. W. Trafzer, architect, Madison City,





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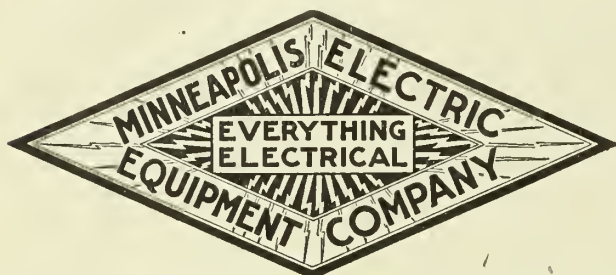
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Iowa, has furnished plans for a 2-story brick business building, fireproof, 20½x124, cost \$15,000; steel frame, trusses and beams, cast columns, ornamental iron, vault lights, stairs, tile, reinforced concrete fireproofing, terra cotta arch., common brick, steam heat, gas, electricity, skylights, galvanized ceiling, composition roof, ornamental plaster, metal lath, plate, prism and ribbed glass, sidewalk lights, tile floor and wainscot, marble floors, interior, oak floors; bids being taken by architect.

**Iowa, Grinnell**—Gifford & Manley, retired capitalists, have decided to erect a 3-story brick mercantile building; cost \$40,000.

**Iowa, Marshalltown**—W. R. Elliott will build a 1-story brick store.

**Iowa, Minburn**—Bids received May 18 for a bank building; plans on file at bank; check for \$300. N. P. Black, cashier, Dallas County Bank.

**Iowa, New Hampton**—Fire destroyed store of Mr. Clemens, at North Washington; loss \$15,000.

**Minn., Carver**—C. L. Dauwalter is building a warehouse.

**Minn., Comfrey**—The Avery Steel & Iron Co., of Minneapolis, are furnishing the iron work for the hotel building Bank, and the P. J. Lilla building, Henry C. Gerlach, architect, Ernest Puhlman, contractor.

**Mont., Fairview**—C. W. Hurd of Alexander State Bank was in city securing estimates for \$10,000 bank building.

**Minn., Fertile**—First State Bank is planning to build a modern bank building.

**Minn., Hibbing**—J. H. Carlson plans to build a 2-story brick store, 28-12-100.

**Minn., Jackson**—Plans by W. E. E. Greene, architect, Laverne, Minn., for 2-story brick business building, 29x82; cost \$7,000, for O. M. Garrett; steel beams, tile fireproofing, lime cut stone, common, pressed brick, hot water heat, electric light, skylights, sheet metal ceiling, ventilation, asbestos roof, common plaster, plate, wired and ribbed glass, exterior marble finish, maple floors, birch finish, 1 freight elevator; bids being taken now by owner.

**Minn., Kelliher**—The Avery Steel & Iron Co., of Minneapolis, are furnishing the iron work for the hotel building for the Geo. E. Gunderson Co., C. Howard Parson, architect, Jos. Sack, contractor.

**Minn., Lakefield**—L. O. Anderson has contract for excavating for J. T. Sololok's new store building.

**Minn., Litchfield**—Johns Bros. will build a modern hardware building.

**Minn., Mankato**—Contract awarded to J. B. Nelson Construction Co. for bakery building for C. A. Keene.

**Minn., Minneapolis**—Fire destroyed the Readcraft Furniture Co., plant; loss estimated at \$12,000.

**Minn., Montevideo**—State Bank of Montevideo will build a new brick building; Chas. H. Budd, president, Wm. J. Evans, vice president; C. M. Budd, cashier.

**Minn., Nashwauk**—The Wisconsin Steel Co. will build shops here, modern.

**Minn., St. Cloud**—Excavation started for addition to Van Theisen billiard hall, 2-story brick, full basement, 128x28, new metal front, remodeled interior.

**Minn., St. Cloud**—Plans are being drawn for addition to Theisen pool room by Architect R. C. Buckley, St. Cloud; modern, estimated cost, \$5,000.

**Minn., Thief River Falls**—J. C. Lutz has completed plans for a 2-story brick modern building for Olaf Neset; H. K. Strand contemplates building a 2-story modern brick, 50x72.

**Minn., Waconia**—C. Hanson has commenced a modern business building.

**Mont., Bozeman**—Fire destroyed the Bon Ton bakery; loss estimated at \$2,500; Dougherty & Zimmerman, proprietors.

**Mont., Butte**—The Jones Fruit Co. will build a 2-story, with concrete basement, 66x100; semi-fireproof, to be finished by July 10.

**Mont., Culbertson**—Sheridan County State Bank will let contract soon for building, stone and pressed brick; T. L. Beiseker, president.

**Mont., Deer Lodge**—The O'Neill Hardware & Plumbing Co., will build addition, 2d story, to their store building.

**\*Mont., Great Falls**—Excavation has begun on the basement of the Continental Oil Co., warehouse; contract awarded to alderman Geo. B. Calvert; cost \$9,000; brick, 2-story, 40x70, concrete foundation.

**Mont., Great Falls**—Edward L. Hammill will build a 3-story store and hotel building.

**Mont., Kalispell**—Elliott Bros. will build a large warehouse, J. B. Gibson, architect; 50x130, brick and concrete.

**Mont., Lewistown**—Wasmandorff & Eastman, architects, Lewistown, are finishing plans for new business block for G. W. Morrow, at Geraldine.

**Mont., Moore**—A new 2-story fireproof building will be built on site of Stone & Nihill building.

**Mont., Shelby**—Fifteen business buildings are in course of construction here.

**Neb., Battlecreek**—Geo. Barnes will build a modern brick or cement block building, 24x70.

**Neb., Cambridge**—Mr. and Mrs. Skinner will build a modern brick building.

**Neb., Cambridge**—W. H. Failing will build a business block, pressed brick and plate glass front.

**Neb., Dakota City**—Plans are being made by W. L. Ross, for store building, 24x60, cement finish.

**Neb., Dakota City**—Schriever Bros. Co. have let contract to a cement block store building, 24x60, to H. J. Austin, fireproof throughout, cement floors, asbestos roof.

**Neb., Greeley**—Hon. Chas. Harris will build a modern brick building.

**Neb., Minden**—Messrs. Pinkham & Pitches, will build a new building.

**Neb., Neligh**—Yearnshaw & Simkins will build a modern business block.

**Neb., Omaha**—The Boyd Theater building will be remodeled into a modern store building by Burgess-Nash Co., six new electric elevators will be installed, made modern throughout.

**Neb., Overton**—Mr. Cobb will build a modern building.

**Neb., Surprise**—J. A. Talkington will build a modern store building.

**Neb., Verdal**—The Edwards & Bradford Lumber Co., are constructing foundation for new store building.

**Neb., Wahoo**—Permit granted to Ed. Hudec and Joe Hudec for a cement block building; asbestos roof, 32x60, for an artificial ice plant.

**Neb., Wausa**—A 2-story brick, semi-fireproof, store will be built by Larson & Holst, plans by J. E. Baggstrom, architect, Wausa, Neb., steel beams, cast iron columns, ornamental iron, common, pressed and hollow brick, furnace heat, electric light, city water, sheet metal cornice, skylights, galvanized ceiling ventilation, tin roof, patent plaster, plate and prism glass, yellow pine finish, one freight elevator, 1,500-lb. capacity, bids received until June 1; by owners, owners will furnish most of materials.

**Neb., Wymore**—Fire destroyed business section, including W. A. Dawson's store, C. W. Robertson's and opstoffice; loss \$55,000.

**Neb., Wynot**—Joseph Ritts of Crofton is planning to build a business block, 24x70.

**N. D., Dickinson**—The Farmers & Merchants' State Bank will rebuild bank, brick, 2-story, modern; A. J. Peterson, president.

**N. D., Harvey**—Geo. Billingmeier will remodel his double store building, brick front, plate glass, south half, 2-story, flat metal roof, rock-faced iron, modern.

**N. D., Harvey**—Julius Sgutt will build a modern store building.

**N. D., McHenry**—Fire destroyed store owned by John Siem, loss about \$3,000; insured.

**N. D., Minot**—A 50-foot brick addition will be built to the brick block of Robt. Szecys.

**N. D., Stanton**—R. K. Woods drug store burned; loss about \$8,000; insured; will rebuilt at once.

**N. D., Steele**—Work will begin soon on First National Bank building; solid brick, 25x64, full basement, Hebron brick, heating contract let to Grambs & Peet, of Bismarck.

**N. D., Williston**—Jos. Stroud has let contract for business building.

**S. D., Aberdeen**—Permit issued to S. W. Huntington for a warehouse.

**S. D., Armour**—James Hanskutt will build modern brick building.

**S. D., Woonsocket**—Merchants Bank and Woonsocket State Bank consolidated and will build modern bank building.

**Wis., Cadott**—Geo. A. Miller is rebuilding his drug store.

**Wis., Clayton**—Fire destroyed the large 2-story brick, building occupied by the Clayton Mercantile Co., damage to business section about \$20,000.

**Wis., Cooperstown**—Store of Mrs. Wanish burned; loss about \$5,000.

**Wis., Fenimore**—Frank Eisle is building a business block; cement blocks.

**Wis., Little Chute**—Mrs. Wm. Vanden will build a store building.

**Wis., Manitowoc**—J. A. Glander will build an \$8,000 building plans are being prepared by Raeuber & Mehner, architects.

**Wis., Menomonie**—First National Bank will be remodeled, modern throughout, beam ceiling, mahogany finish.

**Wis., Menomonie**—Permit granted to A. E. Bryant, for a modern building.



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**Wis., Milwaukee**—Miller Brewing Co. will build a structure 150x150, 2-story, contain 13 stores, estimated cost \$125,000.

**Wis., Phillips**—Jas. H. Timlin will soon begin building a large lumber warehouse, 36x34.

**Wis., Shawano**—Fire destroyed dry shed and quantity of lumber at Neopit; loss \$15,000.

**Wis., Stevens Point**—Business block is being erected by Mrs. M. Theiler; brick, full basement.

**Wis., Superior**—Fire damaged Pease hardware store about \$20,000.

#### BIDS WANTED.

**\*Minn., Badger**—Bids received till 1 p. m., June 2, for concrete block store. Officially advertised in this issue of the Improvement Bulletin.

**N. D., Devils Lake**—Bids received until 3:30 May 23, for a large warehouse for E. W. Gilbertson.

**N. D., Hickson**—Bids received until 9 p. m., May 27, for a brick bank building, First State Bank; plans by Hancock Bros., architects, Fargo; check \$250; separate bids for heating; check \$100; plans at Builders' Exchange, Fargo.

#### CONTRACTS AWARDED.

**Iowa, Council Bluffs**—Contract awarded to contractor C. C. Norgaard, for brick work on Mary Nutt store; architect J. Chris Jensen.

**Iowa, Shenandoah**—Contract let to W. Elmer Fletcher Co. for a warehouse for Cooper-West Co., brick, 24x24.

**Minn., Fairfax**—The Avery Steel & Iron Co., of Minneapolis, have the contract for furnishing the structural iron work, also the reinforcing bars, for the Fairfax Auto Co.'s garage building; Geo. J. Saffert, contractor.

**Minn., Isanti**—Contract awarded to G. W. Carlson for Security State Bank; 2-story.

**Minn., Shapokee**—Contract awarded to August Woehling, for new First National Bank building, 30x60, 2-story, cost \$15,000; tiled floors throughout, plumbing, heating, tapestry brick and Bedford stone front.

**\*Neb., Cambridge**—Contract has been let to rebuild the Skinner block to Perry & Bee Co., modern, fireproof; also for rebuilding Faling block, steel and pressed brick.

**Neb., Grand Island**—Contract awarded to Herman Nelson for Plaine building, 1-story, 132x44.

**Neb., Thedford**—Wahl & Bruce, contractors, Broken Bow, have contract for a store and office building for Dr. Overmass, modern, brick; other contract for pool hall for Thos. Shanley.

**Neb., Utica**—The Babson-Dickman Implement Co. at Seward will build a modern building.

**N. D., Bismarck**—Fred Custer has contract for Eli Gunder-son's new store building.

**N. D., St. Thomas**—Contract awarded to Robt. Green of Grand Forks for new bank building for Farmers' State Bank; brick, 25x51, 1-story, pressed brick front, stone trim. G. H. Larson also let contract to same contractor for a business building; brick, 24x25, plate glass front.

**Wis., Green Bay**—A 3-story brick building will be built by Mrs. Celia Quatsoe & Son, general contract let to Nic. Feldhausen, 38x68.

John Livingston; cost \$4,000; lime cut stone, common and pressed brick, steam hot water heat, electric lights wood shingle roof, common plaster, plate, art and leaded glass, maple composition floors, oak finish; bids being taken by owner; close soon.

**\*Iowa,** Following will build residences: Davenport—John Sodergren, 1\*-story frame, \$2,400; Gust E. Mann, frame 2-story, \$3,000. W. M. Vandewal, apartment building modern, fireproof. Shenandoah—Geo. B. Warner, modern. Wapello—Henry Wagg, modern. Viola—Wilbur Sampson, modern. De Witt—Michael Kearney, \$4,000, modern. Lake Mills—Mr. Tennyson Bollinger.

**\*Iowa, Independence**—Plans by architect Henry Netcott, Independence, for a residence for attorney R. E. Hasner, 2-story, frame, 28x32; cost \$2,000, common, pressed and hollow brick, hot water heat, electric lights, wood shingle roof, common plaster, paint plate, prism, art and leaded glass, oak and composition floors, oak finish; bids taken at once by owner, close June 1.

**\*Minnesota**—Following will build residences: Ulan—Mr. Bakke. Brookston, Chas. Canfield, Cloquet, has contract for Mrs. Kinney's house. Lakefield—John Grein, 6-room bungalow. Canby—G. V. Denelsbeck, modern. Canby—Alfred Anderson, modern. Stacyville—John Miller, modern. Litchfield—Chas. Swanson, bungalow. Litchfield—L. O. Westman, modern bungalow. Zumbrota—Lambert Skillman. Chatfield—U. J. Wright, modern bungalow. Anthony—Carl K. Olson. Albert Lea—Jno. F. Hanson, contractor, has completed plans for Presbyterian manse. Pequot—John Oberlier, modern. Tyler—Hans Olson. Crookston—W. S. Lycan, modern, stucco exterior finish.

**\*Nebraska**—Following will build residences: Mayor Harry S. Villars. Tekamah—W. E. Caldwell, modern. Tecumseh—D. L. Robb, bungalow. Superior—Geo. Powell. Sioux City—Wayne Scott. Magnet—Geo. H. Bangs, Gus Berg, contractor. Hubbard—Peter Anderson, Geo. Eble, contractor. Superior—C. W. Harvey. North Platte—Guy Granger, \$2,500. North Loup—Guy Clement. Norfolk—Mrs. Elizabeth Stanfield, modern. Norfolk—Miss Alice Holt, 6-room bungalow. Elgin—Dan Newton, modern. Aurora—O. S. Matticks, modern. Wayne—C. A. Grothe, modern.

**Nebraska**—Following will build residences: Aurora—H. J. Empkin, modern, plumbing, hardwood finish. Arlington—Jno. F. Hilgenkamp, modern. Dunbar—F. T. Castleman, modern, cement block foundation. Fremont—Grove Spangler, modern, 2-story. Grand Island—Henry Faldorf, modern. Hastings—Blinn Sill, modern bungalow, \$3,500. Hastings—J. O. Rohrer, 2 modern bungalows, brick; Alex. Hrhm, modern. Norfolk—C. W. Switzer, modern bungalow. Newman Grove—Carl Lindo, modern. Neligh—Nate Sowders, modern. Wausa—Dr. E. V. Neumann, modern, 2-story. Blair—Fred Krogh, modern bungalow. Oshkosh—H. P. Madison, modern. Sidney—Mrs. E. Sanders. Ulysses—Henry Decker, contractor for modern, bungalow for Mrs. B. Compton. Wynot—Chas. E. Gosting, modern. Wahoo—Eli Keiser, modern. Elgin—Dillon Hoseman, 1-story cottage. Tekamah—Clarence Haywood. Norfolk—C. W. Switzer. Fremont—Howard Newlon, 6-room modern bungalow.

**North Dakota**—Forman—Architect Dada. Sentinel Butte A. O. Madland. Fargo—F. S. Hallenberg, modern. Fargo—W. L. Stockwell, modern.

**Sask., Regina**—G. Minkely has contract for a residence for R. H. Read, at Lakeview, cost \$12,800.

**South Dakota**—Following will build residences. Gary—contract let to Wm. Lightfoot for C. G. St. John's house, modern. Brookings, Ald. I. B. Johnson. Gary—Art. McKie, modern.

**Wisconsin**—Following will build residences: Mondovi, Miles Brotzman; Thos. Ward, modern. Marshfield, Emmanuel Lutheran church, 2-story, brick and hollow tile, modern; Gust Krasin, architect. Marshfield, D. J. Harney, duplex. Ellison Bay, Alex. Carlson, modern. Grand Rapids, Roger J. Mott, concrete block. De Pere, Phillip Brys. Morrison, Peter Nies, modern. Forrestville, John Hettiger. New Holstein, G. Seyfert, bungalow. Sparta, W. E. Brooks. Viroqua, Mrs. John Pulver, bungalow. Madison, A. W. McConnell, 2-story modern, \$5,000; Andrew Matson, 1½-story bungalow. Kohler, Carl Berlin, modern. La Crosse, Emil Mueller, hollow tile and stucco, cost \$20,000; D. G. MacMillan, brick and stucco, \$20,000; Vincent Tausche, brick, \$10,000; Gus Sexauer, brick and hollow tile, \$8,500; Dr. R. M. Kinnear, duplex brick stucco, \$7,000. Prescott, bids taken until May 16, for parsonage for St. Mary's Catholic church; Rev. A. Havestadt.

**\*Wisconsin**—Following will build residences: Cuba City—Geo. Bray, Sr. Madison—O. S. Norsman, \$1,500; C. O. Peterson, \$5,200; H. A. Ring, \$3,500. Waupun—M. E. Tabor, modern. Chilton—John Spranger, modern.

## RESIDENCES

*Notes arranged alphabetically by States.*

**Alta., Edmonton**—Permits issued for following buildings: store and apartment house, cost \$25,000, for Wm. Connors; Geo. Trust, architect, C. Fify, dwelling \$5,000; C. Quarangeser, dwelling \$2,500; Taylor-Brydle, \$1,200; F. M. Ostrander, \$1,600; F. C. Pole, \$1,400; J. L. Anderson, \$2,500; Milton Martin, \$2,500; R. McQuarrie, \$2,500.

**Alta., Calgary**—F. W. Faux has permit to build an apartment house in Mission block, cost \$10,000.

**Iowa**—Following will build residences: F. J. Hyde, Chas. Schmidt, Carl F. Becker, F. A. Niemeyer, Henry Lenth. Davenport—Wm. Doering, 1½-story frame, \$1,000. Nevada—J. E. Brooks, modern. Locust Grove—Bartlett Bros., bungalow.

**Iowa**—Following will build residences: Marshalltown—J. D. and C. A. Plumb, are building six new 5-room cottages. Cedar Falls—Henry Dahl, apartment house, contract let. Osage—Roscoe Gray, modern. Perry—J. B. Courtney Adel—Wm. Roberts. Clarion—Mrs. Phillips Geitz, modern. Hubbard—H. F. Boeke. West Union—E. R. Ballard, 2-story. Corydon—John Morrett, modern.

**Iowa, Pleasantville**—Robert G. McDowell, architect, 319-321 Good block, Des Moines, prepared plans for a 2-story frame dwelling for F. M. Howsare; 38x48, sand cut stone, hot water heat, city cistern water, septic tank, gas, wood roof, patent plaster, lead and oil paint oak finish; owner taking bids new.

**\*Iowa, Center Junction**—Plans by architect Henry E. Netcott, Independence, for a residence, 1½-story, frame, 38x40, for



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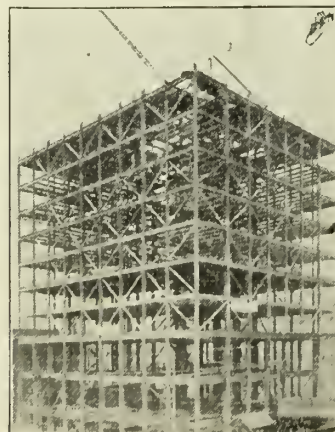
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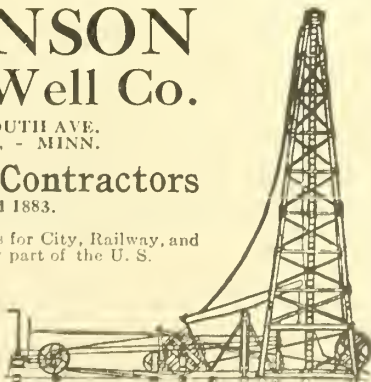
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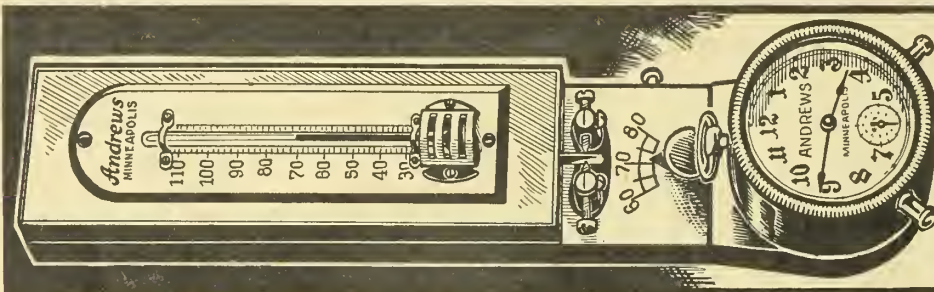
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